



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

RECEIVED
WMD RECORD CENTER
JUN 14 1995

REPLY TO THE ATTENTION OF:

June 8, 1995

CATERPILLAR INC MAPLETON PLT
ATTN RL CLAUSSEN
8826 W RTE 24
MAPLETON IL 61547

RE: US EPA ID Number ILD 052 664 364
Location: 8826 W RTE 24
MAPLETON IL

In response to your correspondence of FEBRUARY 22, 1995, the following
information has been updated:

NAME OF INSTALLATION TO	CATERPILLAR INC MAPLETON PLT
LOCATION OF INSTALLATION TO	8826 W RTE 24
INSTALLATION MAILING ADDRESS TO	8826 W RTE 24
INSTALLATION CONTACT TO	R L CLAUSSEN
	309 633 8601
GENERATOR STATUS TO	LARGE QUANTITY
ADDITION OF WASTE CODE	D009 F001 F003 F027 D012 D023
	D024

If you have any questions, please call me at (312) 886-6173.

Sincerely,

Sharon Kiddon
RCRA Notifications Coordinator
Waste Management Division

cc: State Agency
File



Printed on Recycled Paper



UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
RCRA ACTIVITIES
P.O. BOX A3587
CHICAGO, ILLINOIS 60690

Caterpillar Inc.
8826 W. 24th
Mayleton, IL 61547

5/13/91

RE: EPA ID #: ILD 052664364

In response to your request of 5-7-91 the following
information has been updated:

- (1) change generator status: to Small generator
- (2) Add waste codes to: D011, F002, U122, U226

If you have any questions, please contact me at (312) 886-6173.

Sincerely,

Sharon Kiddon
RCRA Notifications Coordinator
Waste Management Division

cc: State Agency
File



UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION V
111 West Jackson Blvd.
CHICAGO, ILLINOIS 60604

REPLY TO ATTENTION OF:
RCRA ACTIVITIES

APR 6 1982

Mr. R. L. Claussen
Plant Manager
Route 24
Mapleton, Illinois 61547

RE: Interim Status Acknowledgement USEPA ID No. ILD 052 664 364
FACILITY NAME: CATERPILLAR TRACTOR COMPANY

Dear Mr. Claussen:


This is to acknowledge that the U.S. Environmental Protection Agency (USEPA) has completed processing your Part A Hazardous Waste Permit Application. It is the opinion of this office that the information submitted is complete and that you, as an owner or operator of a hazardous waste management facility, have met the requirements of Section 3005(e) of the Resource Conservation and Recovery Act (RCRA) for Interim Status. However, should USEPA obtain information which indicates that your application was incomplete or inaccurate, you may be requested to provide further documentation of your claim for Interim Status. Our opinion will be reevaluated on the basis of this information.

As an owner or operator of a hazardous waste management facility, you are required to comply with the interim status standards as prescribed in 40 CFR Parts 122 and 265, or with State rules and regulations in those States which have been authorized under Section 3006 of RCRA. In addition, you are reminded that operating under interim status does not relieve you from the need to comply with all applicable State and local requirements.

The printout enclosed with this letter identifies the limit(s) of the process design capacities your facility may use during the interim status period. This information was obtained from your Part A Permit application. If you wish to handle new wastes, to change processes, to increase the design capacity of existing processes, or to change ownership or operational control of the facility, you may do so only as provided in 40 CFR Sections 122.22 and 122.23.

As stated in the first paragraph of this letter, you have met the requirements of 40 CFR Part 122.23; your facility may operate under interim status until such time as a permit is issued or denied. This will be preceded by a request from this office or the State (if authorized) for Part B of your application. Please contact Arthur Kawatachi of my staff at (312) 886-7449, if you have any questions concerning this letter or the enclosure.

Sincerely yours,


Karl J. Klepitsch, Jr., Chief
Waste Management Branch

Enclosure

cc: Donald F. Domnick, Vice President

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Form Approved EPA No. 2055-0078 Expires XX/XX/02
GSA No. 246EPA-C7

Please refer to Section V. Line-by-Line Instructions for Completing EPA Form 8700-12 before completing this form. The information requested here is required by law (Section 3010 of the Resource Conservation and Recovery Act).



Notification of Regulated Waste Activity

United States Environmental Protection Agency

RECEIVED

Date Received
(For Official Use Only)
MAR 18 2002

PROGRAM MANAGEMENT BRANCH
Waste, Pesticides & Toxics Division

I. Installation's EPA ID Number (Mark 'X' in the appropriate box)

☐

A. Initial Notification

☒

B. Subsequent Notification
(Complete item C)

C. Installation's EPA ID Number

I L D 0 5 2 6 6 4 3 6 4

II. Name of Installation (Include company and specific site name)

C A T E R P I L L A R I N C . M A P L E T O N , I L

III. Location of Installation (Physical address not P.O. Box or Route Number)

Street

7 7 W E S T J A C K S O N B O U L E V A R D

Street (Continued)

P . O . B O X A 3 5 8 7

City or Town

C H I C A G O

State

I L

Zip Code

6 0 6 9 0

County Code

County Name

IV. Installation Mailing Address (See instructions)

Street or P.O. Box

8 8 2 6 W R O U T E 2 4

City or Town

M A P L E T O N

State

I L

Zip Code

6 1 5 4 7 - 9 7 9 9

V. Installation Contact (Person to be contacted regarding waste activities at site)

Name (Last)

C R O C K E R

(First)

J O E

Job Title

E N V I R O N . C O O R D .

Phone Number (Area Code and Number)

3 0 9 - 6 3 3 - 8 6 3 6

VI. Installation Contact Address (See instructions)

A. Contact Address

Location

Mailing

X

B. Street or P.O. Box

City or Town

State

Zip Code

VII. Ownership (See instructions)

A. Name of Installation's Legal Owner

C A T E R P I L L A R I N C .

Street, P.O. Box, or Route Number

1 0 0 N . E . A D A M S

City or Town

P E O R I A

State

I L

Zip Code

6 1 6 2 9 -

Phone Number (Area Code and Number)

3 0 9 - 6 7 5 - 1 0 0 0

B. Land Type

P

C. Owner Type

P

D. Change of Owner Indicator

Yes

X

No

Date Changed

Month Day Year

Updated 02/3/18/02

ID - For Official Use Only

VIII. Type of Regulated Waste Activity (Mark 'X' in the appropriate boxes. Refer to Instructions)

A. Hazardous Waste Activities

1. Generator (See Instructions)
☐ a. Greater than 1000kg/mo (2,200 lbs.)
☒ b. 100 to 1000 kg/mo (220-2,200 lbs.)
☐ c. Less than 100 kg/mo (220 lbs.)
2. Transporter (Indicate Mode in boxes 1-5 below)
☐ a. For own waste only
☐ b. For commercial purposes

Mode of Transportation

- ☐ 1. Air
☐ 2. Rail
☐ 3. Highway
☐ 4. Water
☐ 5. Other - specify _____

- ☐ 3. Treater, Storer, Disposer (at installation) Note: A permit is required for this activity, see instructions.
4. Hazardous Waste Fuel
☐ a. Generator Marketing to Burner
☐ b. Other Marketers
☐ c. Boiler and/or Industrial Furnace
☐ 1. Smelter Deferral
☐ 2. Small Quantity Exemption
Indicate Type of Combustion Device(s)
☐ 1. Utility Boiler
☐ 2. Industrial Boiler
☐ 3. Industrial Furnace
☐ 5. Underground Injection Control

C. Used Oil Recycling Activities

1. Used Oil Recycling Marketer
☐ a. Marketer Directs Shipment of Used Oil to Off-Specification Burner
☐ b. Marketer Who First Claims the Used Oil Meets the Specifications
2. Used Oil Burner - Indicate Type(s) of Combustion Device
☐ a. Utility Boiler
☐ b. Industrial Boiler
☐ c. Industrial Furnace
3. Used Oil Transporter - Indicate Type(s) of Combustion Device(s)
☐ a. Transporter
☐ b. Transfer Facility
4. Used Oil Processor/Re-refiner - Indicate Type(s) of Activity(ies)
☐ a. Process
☐ b. Re-refine

B. Universal Waste Activity

- ☐ 1. Large Quantity Handler of Universal Waste

IX. Description of Regulated Wastes (Use additional sheets if necessary)

A. Characteristics of Nonlisted Hazardous Wastes. (Mark 'X' in the boxes corresponding to the characteristics of nonlisted hazardous wastes your installation handles; See 40 CFR Parts 261.20 - 261.24)

1. Ignitable
(D001)☒2. Corrosive
(D002)☒3. Reactive
(D003)☐4. Toxicity
Characteristic☐

(List specific EPA hazardous waste number(s) for the Toxicity characteristic

contaminant(s))

D 0 0 0 8 D 0 0 0 9 D 0 0 1 8 D 0 0 3 5

B. Listed Hazardous Wastes. (See 40 CFR 261.31 - 33; See instructions if you need to list more than 12 waste codes.)

1
F 0 0 2
7

2
F 0 0 3
8

3
F 0 0 5
9

4
U 4 0 4
10

5
11

6
12

C. Other Wastes. (State or other wastes requiring a handler to have an I.D. number; See instructions.)

1

2

3

4

5

6

X. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature

Robert T. Williams

Name and Official Title (Type or print)

Robert T. Williams, Plant Manager

Date Signed

3/14/02

XI. Comments

Note: Mail completed form to the appropriate EPA Regional or State Office. (See Section III of the booklet for addresses.)

Please refer to the instructions for Filing Notification before completing this form. The information requested here is required by law (Section 3010 of the Resource Conservation and Recovery Act).



Notification of Regulated Waste Activity

United States Environmental Protection Agency

Date Received
(For Official Use Only)

FEB 22 1995

I. Installation's EPA ID Number (Mark 'X' in the appropriate box)

☐

A. First Notification

☒

B. Subsequent Notification
(complete item C)

C. Installation's EPA ID Number

I L D 0 5 2 6 6 4 3 6 4

II. Name of Installation (Include company and specific site name) 1438050004

C A T E R P I L L A R I N C. - M A P L E T O N P L A N T

III. Location of Installation (Physical address not P.O. Box or Route Number)

Street

8 8 2 6 W R O U T E 2 4

Street (continued)

update

City or Town

State

ZIP Code

M A P L E T O N

I L

6 1 5 4 7 - 9 7 9 9

County Code

County Name

P E O R I A

IV. Installation Mailing Address (See instructions)

Street or P.O. Box

S A M E

City or Town

State

ZIP Code

V. Installation Contact (Person to be contacted regarding waste activities at site)

Name (last)

(first)

C L A U S S E N

R L

Job Title

Phone Number (area code and number)

G E N E R A L M A N A G E R 3 0 9 - 6 3 3 - 8 6 0 1

VI. Installation Contact Address (See instructions)

A. Contact Address
Location Mailing

☒

B. Street or P.O. Box

City or Town

VII. Ownership (See instructions)

A. Name of Installation's Legal Owner

C A T E R P I L L A R I N C

Street, P.O. Box, or Route Number

I 0 0 N E A D A M S

City or Town

P E O R I A

Phone Number (area code and number)

B. Land Type

C. Owner

3 0 9 - 6 7 5 - 1 0 0 0

P

P

Clarification
of address.

Installation has
not moved.

OK to change
any V.

APR 01 1995

CATERPILLAR

ID - For Official Use Only

VIII. Type of Regulated Waste Activity (Mark 'X' in the appropriate boxes. Refer to Instructions.)

A. Hazardous Waste Activity

1. Generator (See Instructions)

- ☒ a. Greater than 1000kg/mo (2,200 lbs.)
☐ b. 100 to 1000 kg/mo (220 - 2,200 lbs.)
☐ c. Less than 100 kg/mo (220 lbs.)

2. Transporter (Indicate Mode in boxes 1-5 below)

- ☐ a. For own waste only
☐ b. For commercial purposes

Mode of Transportation

- ☐ 1. Air
☐ 2. Rail
☐ 3. Highway
☐ 4. Water
☐ 5. Other - specify

3. Treater, Storer, Disposer (at installation)
Note: A permit is required for this activity; see instructions.

4. Hazardous Waste Fuel

- ☐ a. Generator Marketing to Burner
☐ b. Other Marketers
☐ c. Burner - indicate device(s) -
 Type of Combustion Device

- ☐ 1. Utility Boiler
☐ 2. Industrial Boiler
☐ 3. Industrial Furnace

5. Underground Injection Control

B. Used Oil Fuel Activities

1. Off-Specification Used Oil Fuel

- ☐ a. Generator Marketing to Burner
☐ b. Other Marketer
☐ c. Burner - indicate device(s) -
 Type of Combustion Device

- ☐ 1. Utility Boiler
☐ 2. Industrial Boiler
☐ 3. Industrial Furnace

2. Specification Used Oil Fuel Marketer
(or On-site Burner) Who First Claims
the Oil Meets the Specification

IX. Description of Regulated Wastes (Use additional sheets if necessary)

A. Characteristics of Nonlisted Hazardous Wastes. Mark 'X' in the boxes corresponding to the characteristics of nonlisted hazardous wastes your installation handles. (See 40 CFR Parts 261.20 - 261.24)

1. Ignitable (D001) ☒ 2. Corrosive (D002) ☒ 3. Reactive (D003) ☒ 4. Toxicity Characteristic (D000) ☒

See Section XI below

(List specific EPA hazardous waste number(s) for the Toxicity Characteristic contaminant(s))

☒☒☒☒

D 0 0 7

D 0 0 8

D 0 0 9

D 0 1 1

B. Listed Hazardous Wastes. (See 40 CFR 261.31 - 33. See instructions if you need to list more than 12 waste codes.)

1
F 0 0 1
7
U 2 2 6

2
F 0 0 2
8

3
F 0 0 3
9

4
F 0 2 7
10

5
U 1 2 2
11

6
U 1 5 4
12

C. Other Wastes. (State or other wastes requiring an ID number. See instructions.)

1

2

3

4

5

6

X. Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment.

Signature

R.L. Claussen

Name and Official Title (type or print)

R.L. Claussen, General Manager

Date Signed

February 6, 1995

XI. Comments

Additional codes for Section IXA: D012, D018, D023, D024, D029

Note: Mail completed form to the appropriate EPA Regional or State Office.

CATERPILLAR®

Caterpillar Inc.

Mapleton, Illinois 61547

JUL 17 1992

January 17, 1992

RECEIVED

JUN 29 1992

U. S. EPA, REGION V
SWB — PMS

IEPA
DLPC - RCRA Activities
2200 Churchill Rd.
Springfield, IL 62706

Dear Sir:

Re: RCRA Part A Amendment
Caterpillar Inc. - Mapleton Plant
ILD052664364

Please find enclosed the following forms to amend the above referenced permit:

Hazardous Waste Permit Application Part A
Notification of Regulated Waste Activity

This amendment is made to add D007, D018, D029, and U154 wastes.

Any questions regarding this matter should be addressed to Carey French at (309) 633-8425.

Telephone: (309) 633-8425
klc/partal92.1tr

Enclosures -

7/17

Mary V.

addition of Waste Code

OK to add

Waste codes

Mary V. Carolyn

7/17/92

JUN 22 1992

IEPA/DLPC

Please refer to the instructions for Filing Notification before completing this form. The information requested here is required by law (Section 3010 of the Resource Conservation and Recovery Act).



Notification of Regulated Waste Activity

United States Environmental Protection Agency

Date Received
(For Official Use Only)

I. Installation's EPA ID Number (Mark 'X' in the appropriate box)

☐

A. First Notification

☒

B. Subsequent Notification
(complete item C)

C. Installation's EPA ID Number

I L D 0 5 2 6 6 4 3 6 4

II. Name of Installation (Include company and specific site name)

1438050004

C A T E R P I L L A R I N C - M A P L E T O N P L A N T

III. Location of Installation (Physical address not P.O. Box or Route Number)

Street

8 8 2 6 W R O U T E 2 4

Street (continued)

City or Town

State

ZIP Code

M A P L E T O N

I L 6 1 5 4 7 - 9 7 9 9

County Code

County Name

P E O R I A

IV. Installation Mailing Address (See Instructions)

Street or P.O. Box

S A M E

City or Town

State

ZIP Code

V. Installation Contact (Person to be contacted regarding waste activities at site)

Name (last)

(first)

C L A U S S E N

R L

Job Title

Phone Number (area code and number)

P L A N T M A N A G E R

3 0 9 - 6 3 3 - 8 6 0 1

VI. Installation Contact Address (See Instructions)

A. Contact Address
Location Mailing

B. Street or P.O. Box

X

City or Town

State

ZIP Code

VII. Ownership (See Instructions)

A. Name of Installation's Legal Owner

RECEIVED

C A T E R P I L L A R I N C

SEP 23 1991

Street, P.O. Box, or Route Number

1 0 0 N E A D A M S

IEPA-DLPC

City or Town

State

ZIP Code

P E O R I A

I L 6 1 6 2 9 -

Phone Number (area code and number)

B. Land Type

C. Owner Type

D. Change of Owner Indicator

(Date Changed) Month Day Year

3 0 9 - 6 7 5 - 1 0 0 0

P

P

Yes

No

X

ID - For Official Use Only

VIII. Type of Regulated Waste Activity (Mark 'X' in the appropriate boxes. Refer to instructions.)

A. Hazardous Waste Activity

1. Generator (See Instructions) ☒ 3. Treater, Storer, Disposer (at installation) ☒
a. Greater than 1000kg/mo (2,200 lbs.)
b. 100 to 1000 kg/mo (220 - 2,200 lbs.)
c. Less than 100 kg/mo (220 lbs.)
Note: A permit is required for this activity; see instructions.
2. Transporter (Indicate Mode in boxes 1-5 below)
a. For own waste only
b. For commercial purposes
Mode of Transportation
1. Air
2. Rail
3. Highway
4. Water
5. Other - specify _____
4. Hazardous Waste Fuel
a. Generator Marketing to Burner
b. Other Marketers
c. Burner - indicate device(s) - Type of Combustion Device
1. Utility Boiler
2. Industrial Boiler
3. Industrial Furnace
5. Underground Injection Control

B. Used Oil Fuel Activities

1. Off-Specification Used Oil Fuel
a. Generator Marketing to Burner
b. Other Marketer
c. Burner - indicate device(s) - Type of Combustion Device
1. Utility Boiler
2. Industrial Boiler
3. Industrial Furnace
2. Specification Used Oil Fuel Marketer (or On-site Burner) Who First Claims the Oil Meets the Specification

IX. Description of Regulated Wastes (Use additional sheets if necessary)

- A. Characteristics of Nonlisted Hazardous Wastes. Mark 'X' in the boxes corresponding to the characteristics of nonlisted hazardous wastes your installation handles. (See 40 CFR Parts 261.20 - 261.24) See Section XI below.

1. Ignitable (D001) ☒ 2. Corrosive (D002) ☒ 3. Reactive (D003) ☒ 4. Toxicity Characteristic (D000) ☒

(List specific EPA hazardous waste number(s) for the Toxicity Characteristic contaminant(s))

D 0 0 7 D 0 0 8 D 0 0 9 D 0 1 1

- B. Listed Hazardous Wastes. (See 40 CFR 261.31 - 33. See instructions if you need to list more than 12 waste codes.)

1 F 0 0 2	2 F 0 2 7	3 U 1 2 2	4 U 1 5 4	5 U 2 2 6	6
7 	8 	9 	10 	11 	12

- C. Other Wastes. (State or other wastes requiring an I.D. number. See instructions.)

1 	2 	3 	4 	5 	6
-------	-------	-------	-------	-------	-------

X. Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment.

Signature

Name and Official Title (type or print)

R.L. Claussen, Plant Manager

Date Signed

11/17/92

XI. Comments

Additional codes for Section IXA above: D012, D018, D023, D024, and D029.

Note: Mail completed form to the appropriate EPA Regional or State Office. (See Section III of the booklet for addresses.)

<h1 style="margin: 0;">Hazardous Waste Permit Application</h1> <h2 style="margin: 0;">Part A</h2> <p style="margin: 0; font-size: small;">(Read the instructions before starting)</p>		DATE 08/22/92
Date Received Month: Day: Year:		
ID Number(s) EPA ID Number: Secondary ID Number (if applicable):		
Name of Facility C A T E R P I L L A R I N C - M A P L E T O N P L A N T		
Facility Location (Physical address, not P.O. Box, Route Number) Street 8 8 2 6 W R O U T E 2 4		
Street (continued) (Empty row)		
City or Town M A P L E T O N		State ZIP Code I L 6 1 5 4 7 - 9 7 9 9
County Code (Empty)	County Name P E O R I A	
B. Land Type (Empty)	C. Geographic Location LATITUDE (degrees, minutes, & seconds) P 4 0 3 0 0 3 5 0 8 9 4 5 0 0 8	D. Facility Existence Date Month Day Year 1 1 1 4 1 9 8 0
Facility Mailing Address Street or P.O. Box S A M E		
City or Town (Empty)		State ZIP Code (Empty)
Facility Contact (Person to be contacted regarding waste activities at facility) Name (last) (first) C L A U S S E N R L		RECEIVED JUN 22 1992
Title P L A N T M A N A G E R		Phone Number (area code and number) 3 0 9 - 6 3 3 - EPA/DLPC
Facility Contact Address (See instructions) Contact Address B. Street or P.O. Box X (Empty)		
City or Town (Empty)		State ZIP Code (Empty)

EPA Form 8700-23 (01-90)

EPA ID Number (enter from page 1)										Secondary ID Number (enter from page 1)													
I	L	D	0	5	2	6	6	4	3	6	4												

Caterpillar's Mapleton Plant is a Gray Iron Foundry, producing castings for Caterpillar's use in the production of engines and heavy equipment.

Note: This filing updates the following filings:

November 14, 1980 (Original)
December 21, 1984
May 31, 1989
March 4, 1991
May 15, 1991

XII. Process Codes and Design Capacities

A. **PROCESS CODES** - Enter the code from the list of process codes below that best describes each process to be used at the facility. Twelve lines are provided for entering codes. If more lines are needed, attach a separate sheet of paper with the additional information. If a process not listed is used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided in Item XII.

B. **PROCESS DESIGN CAPACITY** - For each code entered in column A, enter the capacity of the process.

1. **AMOUNT** - Enter the amount. In a case where design capacity is not applicable (such as in a closure/post-closure or other cases), enter the total amount of waste for that process unit.

2. **UNIT OF MEASURE** - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

3. **PROCESS UNIT** - Enter the name of the process unit in the space provided next to the corresponding process code.

PROCESS CODE	PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	UNIT OF MEASURE	UNIT OF MEASURE CODE
	DISPOSAL:			
D79	INJECTION WELL	GALLONS; LITERS; GALLONS PER DAY; OR LITERS PER DAY	GALLONS	G
D80	LANDFILL	ACRE-Feet OR HECTARE-METER	GALLONS PER HOUR	E
D81	LAND APPLICATION	ACRES OR HECTARES	GALLONS PER DAY	U
D82	OCEAN DISPOSAL	GALLONS PER DAY OR LITERS PER DAY	LITERS	L
D83	SURFACE IMPOUNDMENT	GALLONS OR LITERS	LITERS PER HOUR	H
	STORAGE:			
S01	CONTAINER (barrel, drum, etc.)	GALLONS OR LITERS	LITERS PER DAY	V
S02	TANK	GALLONS OR LITERS	SHORT TONS PER HOUR	D
S03	WASTE PILE	CUBIC YARDS OR CUBIC METERS	METRIC TONS PER HOUR	W
S04	SURFACE IMPOUNDMENT	GALLONS OR LITERS	SHORT TONS PER DAY	N
	TREATMENT:			
T01	TANK	GALLONS PER DAY OR LITERS PER DAY	METRIC TONS PER DAY	S
T02	SURFACE IMPOUNDMENT	GALLONS PER DAY OR LITERS PER DAY	POUNDS PER HOUR	J
T03	INCINERATOR	SHORT TONS PER HOUR; METRIC TONS PER HOUR; GALLONS PER HOUR; LITERS PER HOUR; OR BTU'S PER HOUR	KILOGRAMS PER HOUR	R
			CUBIC YARDS	Y
T04	OTHER TREATMENT	GALLONS PER DAY; LITERS PER DAY; POUNDS PER HOUR; SHORT TONS PER HOUR; KILOGRAMS PER HOUR; METRIC TONS PER DAY; METRIC TONS PER HOUR; OR SHORT TONS PER DAY	CUBIC METERS	C
	(Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundment or incinerators. Describe the processes in the space provided in Item XIII.)		ACRES	B
			ACRE-Feet	A
			HECTARES	Q
			HECTARE-METER	F
			BTU's PER HOUR	K

EPA I.D. Number (enter from page 1)

Secondary ID Number (enter from page 1)

I L D 0 5 2 6 6 4 3 6 2

XII. Process - Codes and Design Capacities (continued)

EXAMPLE FOR COMPLETING ITEM XII (shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

Line Number	A. PROCESS CODE (from list above)				B. PROCESS DESIGN CAPACITY		C. PROCESS TOTAL NUMBER OF UNITS	FOR OFFICIAL USE ONLY					
					1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)							
X 1	S	0	2		200	G	0	0	2				
X 2	T	0	2		20	E	0	0	1				
	1	S	0	1	55,000	G	0	0	4				
	2												
	3												
	4												
	5												
	6												
	7												
	8												
	9												
	10												
	11												
	12												

NOTE: If you need to list more than 12 process codes, attach an additional sheet(s) with the information in the same format as above. Number the lines sequentially, taking into account any lines that will be used for additional treatment processes in item XIII.

XIII. Additional Treatment Processes (follow instructions from Rem XII)

Line Number (enter number in sequence with Rem XII)	A. PROCESS CODE	B. TREATMENT PROCESS DESIGN CAPACITY		C. PROCESS TOTAL NUMBER OF UNITS	D. DESCRIPTION OF PROCESS
		1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)		
	T 0 4				
	T 0 4				
	T 0 4				
	T 0 4				

Primary Hazardous Waste Number (enter from page 1)												Secondary Hazardous Waste Number (enter from page 1)											
I L D 0 5 2 6 6 4 3 6 4																							

ITEM D. PROCESSES

1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item XII A, on page 3 to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous waste: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item XII A, on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous waste that processes that characteristic or toxic contaminant.

NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:

- Enter the first two as described above.
- Enter "000" in the extension area of Item XIV-B(2).
- Enter in the space provided on page 7, Item XIV-B, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is entered for a process that will be used, describe the process in the space provided on the form (D(2)).

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER: Hazardous wastes may be described by more than one EPA Hazardous Waste Number. Hazardous wastes shall be described on the form as follows:

- Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- In column A of the next line enter any other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "Included With Above" and make no other entries on that line.
- Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM XIV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

Line Number	A. EPA HAZARD WASTE NO. (enter code)		B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESS	
	(1) PROCESS CODES (enter)	(2) PROCESS DESCRIPTION (If a code is not entered in D(1))				
X-1	1	K 0 3	900	P	T 0 3 D 8 0	
X-2	2	D 0 3	200	P	T 0 3 D 8 0	
X-3	3	D 0 3	200	P	T 0 3 D 8 0	
X-4	4	D 0 3	100	P		Included With Above

EPA Form 8700-23 (01-90)

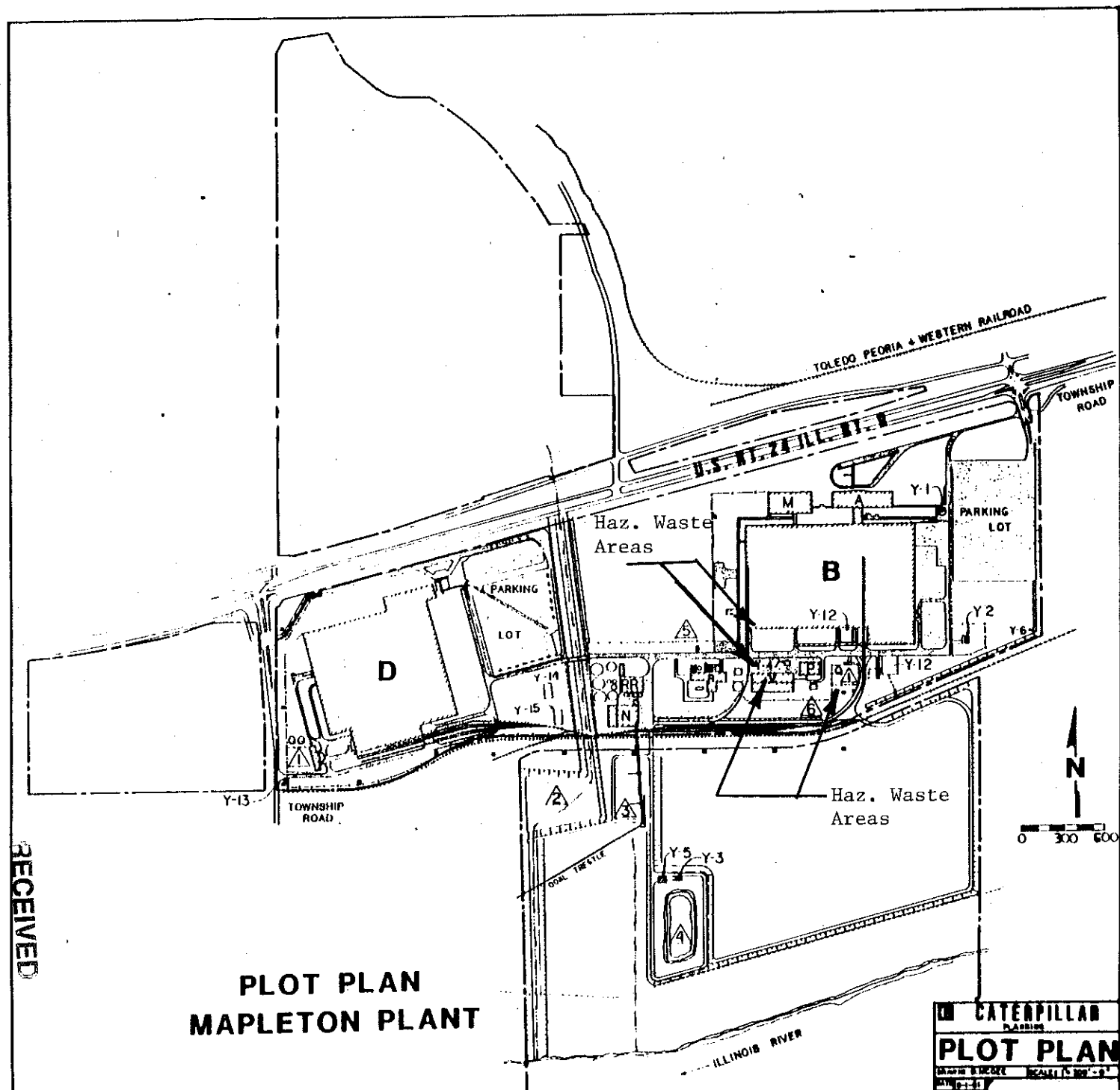
[illegible]

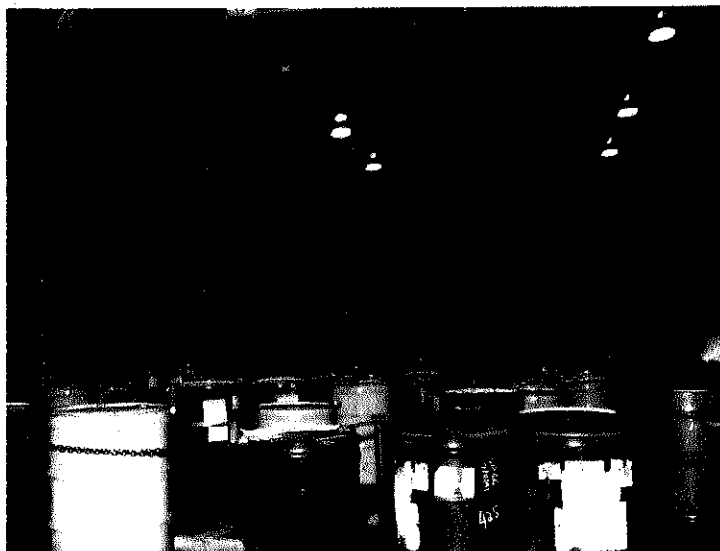
EPAM/PC

JUN 22 1992

RECEIVED

PLOT PLAN MAPLETON PLANT





Building V



Building Y-16



S. of Q-yard, not in use currently



Building B marshalling, not in use currently

21.07324

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Form Approved, OMB No. 2050-0028, Expires 10-31-91
GSA No. 0246-EPA-OT

Please refer to the instructions for Filing Notification before completing this form. The information requested here is required by law (Section 3010 of the Resource Conservation and Recovery Act).



Notification of Regulated Waste Activity

United States Environmental Protection Agency

Date Received
(For Official Use Only)

APR 5 1991

REGION V

I. Installation's EPA ID Number (Mark 'X' in the appropriate box)

☐

A. First Notification

☒B. Subsequent Notification
(complete item C)

C. Installation's EPA ID Number

I L D 0 5 2 6 6 4 3 6 4

II. Name of Installation (Include company and specific site name)

1438050004

C A T E R P I L L A R I N C - M A P L E T O N P L A N T

III. Location of Installation (Physical address not P.O. Box or Route Number)

Street

8 8 2 6 W R O U T E 2 4

Street (continued)

City or Town

State

ZIP Code

M A P L E T O N I L 6 1 5 4 7 - 9 7 9 9

County Code County Name

P E O R I A

IV. Installation Mailing Address (See instructions)

Street or P.O. Box

S A M E

City or Town

State

ZIP Code

V. Installation Contact (Person to be contacted regarding waste activities at site)

Name (last)

(first)

C L A U S S E N R L

Job Title

Phone Number (area code and number)

P L A N T M A N A G E R 3 0 9 - 6 3 3 - 8 6 0 1

VI. Installation Contact Address (See instructions)

A. Contact Address

B. Street or P.O. Box

X

City or Town

State

ZIP Code

VII. Ownership (See instructions)

A. Name of Installation's Legal Owner

C A T E R P I L L A R I N C

RECEIVED

Street, P.O. Box, or Route Number

1 0 0 N E A D A M S

MAR 27 1991

City or Town

State

ZIP Code

P E O R I A I L 6 1 6 2 9 -

IEPA-DLPC

B. Land Type

C. Owner Type

D. Change of Owner

(Date Changed)

3 0 9 - 6 7 5 - 1 0 0 0 P P Yes No X

*per phone call Cary French 5/22/91

VIII. Type of Regulated Waste Activity (Mark 'X' in the appropriate boxes. Refer to instructions.)

A. Hazardous Waste Activity

1. Generator (See Instructions) ☒ 3. Treater, Storer, Disposer (at installation)
 a. Greater than 1000kg/mo (2,200 lbs.) ☒ Note: A permit is required for this activity; see instructions.
 b. 100 to 1000 kg/mo (220 - 2,200 lbs.) ☐
 c. Less than 100 kg/mo (220 lbs.) ☐
 2. Transporter (Indicate Mode in boxes 1-5 below) ☐
 a. For two waste only ☐
 b. For commercial purposes ☐
 Mode of Transportation:
☐ 1. Air
☐ 2. Rail
☐ 3. Highway
☐ 4. Water
☐ 5. Other ☐ 5. Underground Injection Control

B. Used Oil Fuel Activities

1. Off-Specification Used Oil Fuel
☐ a. Generator Marketing to Burner
☐ b. Other Marketer
☐ c. Burner - Indicate device(s) - Type of Combustion Device
☐ 1. Utility Boiler
☐ 2. Industrial Boiler
☐ 3. Industrial Furnace
☐ 2. Recycled Used Oil Fuel Marketer (or other burner) who first claims to meet the Specification.

IX. Description of Regulated Wastes (Use additional sheets if necessary.)

A. Characteristics of Nonlisted Hazardous Wastes. Mark 'X' in the boxes corresponding to the characteristics of nonlisted hazardous wastes your installation handles. (See 40 CFR Parts 261.20 - 261.24)

1. Ignitable (D001) ☒ 2. Corrosive (D002) ☒ 3. Reactive (D003) ☒ 4. EP Toxics (D004) ☒ (List specific hazardous waste number(s) for the EP Toxics contaminant(s))
 D 0 1 1

B. Listed Hazardous Wastes. (See 40 CFR 261.31 - 33. See instructions if you need to list more than 12 waste codes.)

1 F 0 0 2	2 U 1 2 2	3 U 2 2 6	4	5	6
7	8	9	10	11	12

C. Other Wastes. (State or other wastes requiring an I.D. number. See instructions.)

1	2	3	4	5	6
---	---	---	---	---	---

X. Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment.

Signature

R. L. Claussen

Name and Official Title (type or print)

R. L. CLAUSSEN PLANT MANAGER

Date Signed

3/4/91

XI. Comments

Note: Mail completed form to the appropriate EPA Regional or State Office. (See Section III of the booklet for addresses.)



United States Environmental Protection Agency
Washington, DC 20460

Notification of Hazardous Waste Activity

Please refer to the instructions for Filing Notification before completing this form. The information requested here is required by law (Section 3010 of the Resource Conservation and Recovery Act).

For Official Use Only

Comments

[illegible]

1. Name of Installation

CATERPILLAR INC

II. Installation Mailing Address

Street or P.O. Box

[illegible]

III. Location of Installation

Street or Route Number

[illegible]

IV. Installation Contact

Name and Title (last, first, and job title)

Phone Number
(area code and number)

[illegible]

V. Ownership

A. Name of Installation's Legal Owner

B. Type of Ownership
(enter code)

[illegible]

VI. Type of Regulated Waste Activity (Mark 'X' in the appropriate boxes. Refer to instructions.)

A. Hazardous Waste Activity

B. Used Oil Fuel Activities

- ☐ 1a. Generator ☒ 1b. Less than 1,000 kg/mo.
- ☐ 2. Transporter
- ☐ 3. Treater/Storage/Disposer
- ☐ 4. Underground Injection
- ☐ 5. Market or Burn Hazardous Waste Fuel
- (enter 'X' and mark appropriate boxes below)*
- ☐ a. Generator Marketing to Burner
- ☐ b. Other Marketer
- ☐ c. Burner

- ☐ 6. Off-Specification Used Oil Fuel
- ☐ a. Generator Marketing to Burner
 - ☐ b. Other Marketer
 - ☐ c. Burner
- ☐ 7. Specification Used Oil Fuel Marketer (or On site Burner)
Who First Claims the Oil Meets the Specification

VII. Waste Fuel Burning: Type of Combustion Device (enter 'X' in all appropriate boxes to indicate type of combustion device(s) in which hazardous waste fuel or off-specification used oil fuel is burned. See instructions for definitions of combustion devices.)

- ☐ A. Utility Boiler ☐ B. Industrial Boiler ☐ C. Industrial Furnace

VIII. Mode of Transportation (transporters only - enter 'X' in the appropriate box(es))

- ☐
- A. Air
- ☐
- B. Rail
- ☐
- C. Highway
- ☐
- D. Water
- ☐
- E. Other (specify) _____

IX. First or Subsequent Notification

Mark 'X' in the appropriate box to indicate whether this is your installation's first notification of hazardous waste activity or a subsequent notification. If this is not your first notification, enter your installation's EPA ID Number in the space provided below.

- ☐ A. First Notification ☐ B. Subsequent Notification
(complete item C)

C. Installation's EPA ID Number

[illegible]

A. Hazardous Wastes from Nonspecific Sources. Enter the four-digit number from 40 CFR Part 261.31 for each listed hazardous waste from nonspecific sources your installation handles. Use additional sheets if necessary.

A-

13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30

31	32	33	34	35	36
37	38	39	40	41	42
43	44	45	46	47	48

[illegible]

A.

- ☒ 1. Ignitable (D001) ☒ 2. Corrosive (D002) ☒ 3. Reactive (D003) ☒ 4. Toxic (D000)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Date Signed _____

EPA Form 8700-12 (Rev. 10-88) Previous edition is obsolete.

NO file

A



**ACKNOWLEDGEMENT OF NOTIFICATION
OF HAZARDOUS WASTE ACTIVITY
(VERIFICATION)**

This is to acknowledge that you have filed a Notification of Hazardous Waste Activity for the installation located at the address shown in the box below to comply with Section 3010 of the Resource Conservation and Recovery Act (RCRA). Your EPA Identification Number for that installation appears in the box below. The EPA Identification Number must be included on all shipping manifests for transporting hazardous wastes; on all Annual Reports that generators of hazardous waste, and owners and operators of hazardous waste treatment, storage and disposal facilities must file with EPA; on all applications for a Federal Hazardous Waste Permit; and other hazardous waste management reports and documents required under Subtitle C of RCRA.

EPA I.D. NUMBER

ILD052664364

REACKNOWLEDGEMENT

CATERPILLAR TRACTOR COMPANY
ROUTE 24
MAPLETON

IL 61547

INSTALLATION ADDRESS

ROUTE 24
MAPLETON

IL 61547

EPA Form 8700-12B (4-80)

09/28/81



**ACKNOWLEDGEMENT OF NOTIFICATION
OF HAZARDOUS WASTE ACTIVITY
(VERIFICATION)**

This is to acknowledge that you have filed a Notification of Hazardous Waste Activity for the installation located at the address shown in the box below to comply with Section 3010 of the Resource Conservation and Recovery Act (RCRA). Your EPA Identification Number for that installation appears in the box below. The EPA Identification Number must be included on all shipping manifests for transporting hazardous wastes; on all Annual Reports that generators of hazardous waste, and owners and operators of hazardous waste treatment, storage and disposal facilities must file with EPA; on all applications for a Federal Hazardous Waste Permit; and other hazardous waste management reports and documents required under Subtitle C of RCRA.

EPA I.D. NUMBER

ILD052664364

REACKNOWLEDGEMENT

CATERPILLAR TRACTOR COMPANY
ROUTE 24
MAPLETON

IL 61547

INSTALLATION ADDRESS

ROUTE 24
MAPLETON

IL 61547

EPA Form 8700-12B (4-80)

08/14/81



Caterpillar Inc.

Mapleton, Illinois 61547

April 1, 2002

Sharon Kiddon
Region 5 Notification Program Manager
United States Environmental Protection Agency
77 West Jackson Boulevard
Chicago, IL 61604-3590

RECEIVED
APR 26 2002
RCRA RECORDS ROOM
Waste, Pesticides & Toxics Division
U. S. EPA—REGION 5

RE: 8700-12 Subsequent Notification for ILD0526644364

Dear Ms. Kiddon:

As we discussed on the telephone Thursday, March 28, the address for the USEPA was mistakenly added to the 8700-12 form filed for the Mapleton facility. When the subsequent notification form was sent to the USEPA, Section III was intentionally left empty, as the "Location of Installation" had not changed since the initial notification was filed. I do not know at what point the address was filled in with that of the USEPA.

Please accept the corrected copy of the form attached to this letter. The address shown on this copy in Section III is that of the Mapleton facility.

If you have any questions regarding this matter, I can be contacted at (309) 633-8482.
Thank you for your assistance.

Sincerely,

A handwritten signature in cursive script that reads "Rebecca Costura".

Rebecca Costura
Environmental Engineer

Enclosures



P486652374

217/782-6761

Refer to: # 1438050004 -- Peoria County
Caterpillar, Inc.
ILD 052664364
RCRA - Permits

May 6, 1988

Caterpillar, Inc.
Route 24
Napleton, Illinois 61547

Attn: Environmental Coordinator or
Plant Manager

Dear Sir:

According to Agency files, your facility currently manages hazardous waste in containers and/or tanks subject to the requirements of 35 IAC 700-725. 35 IAC 703.157(f) states that interim status for any hazardous waste storage or treatment facility will be terminated November 8, 1992, unless the facility submits Part B of the RCRA permit application for these units to this Agency by November 8, 1988. This letter is written to (1) make you aware of this requirement and (2) describe the actions which must be taken in response to this requirement.

According to 35 IAC 703.157(f), if an existing facility desires to (1) store hazardous waste on-site for greater than ninety (90) days, (2) treat hazardous waste, or (3) store hazardous waste as a commercial facility after November 8, 1992, it must submit Part B of the RCRA permit application to this Agency by November 8, 1988. The information which must be contained in this application is described in 35 IAC 703, Subpart D. The enclosed document, entitled "RCRA Permit Guidance" provides more detail regarding the necessary contents of the application and also identifies several guidance documents which will be useful in developing the application. Also included in this document is the form which must be used when submitting the application.

If a facility does not desire to continue storing and/or treating hazardous waste after November 8, 1992, it must close the storage and/or treatment unit(s) present at the facility prior to this date. Closure, in this instance, basically means that all contamination must be removed from the unit(s) and if necessary, from the area surrounding these units. The requirements which must be met in closing these units are contained in 35 IAC 725, Subpart G. For your convenience, guidance for the development of a closure plan is contained in the enclosed document entitled "Instructions for the Preparation of Closure Plans for Interim Status RCRA Hazardous Waste Facilities." PLEASE NOTE THAT A CLOSURE PLAN DOES NOT NEED TO BE SUBMITTED AT THIS TIME. IT MUST HOWEVER, BE SUBMITTED TO THE AGENCY NO LATER THAN MAY 8, 1992.



Page 2

In some instances, there may be several interim status hazardous waste management units at a facility. The facility may desire to pursue a final RCRA permit for a portion of these units and close the rest of them. Because of the uncertainty associated with this option, all interim status units at a facility must be included in Part B of the RCRA permit application, unless a closure plan for the units being closed is submitted with the Part B. If a closure plan is submitted with the Part B, the application need only address those units which will remain in operation.

The only alternatives available for hazardous waste treatment and storage facilities to meet the requirements of 35 IAC 703.157(f) are (1) submit Part B of the RCRA permit application by November 8, 1988 or (2) close by November 8, 1992. However, some facilities may have previously filed Part A of the RCRA permit application in error and now feel that the hazardous waste management activities carried out at the facility do not require a RCRA permit (i.e. the Part A was filed for protective measures). If this is the case, the Agency requests that information supporting this position be submitted no later than November 8, 1988. The Agency can then review the information submitted and correct its records accordingly. The information which must be submitted to make this demonstration is contained in the enclosed document entitled "Facility Part A Withdrawal Request Form."

Finally, some facilities may have closed or are currently closing in accordance with an IEPA approved closure plan. (Please bear in mind this letter is going out to over 200 facilities; some closed facilities may inadvertently receive this letter.) In this instance, the Agency requests that a copy of (1) the closure plan approval letter and (2) the letter from the Agency accepting the certifications of the owner/operator and the registered professional engineer that closure was carried out in accordance with the approved closure plan (if closure has been completed) be submitted by November 8, 1988. The Agency will again be able to review this information and correct its records accordingly.

Because of the large number of facilities subject to the requirements of 35 IAC 703.157(f), the Agency requests that all facilities receiving this letter complete the enclosed form entitled "RCRA Permit Information Form." The form has been developed such that it can be used by a facility falling into any of the five categories described above (pursuing a final permit, planning to close, pursuing a permit for only a portion of the interim status units and closing the other units, protective filers, closed in accordance with an IEPA approved closure plan). This form must be submitted to the Agency no later than November 8, 1988, along with all required attachments. Failure to do so may subject a facility to enforcement under State and/or Federal regulations and possible monetary penalties up to \$25,000 per day of noncompliance.



Page 3

The RCRA Permit Information Form and all required attachments must be submitted in triplicate (original and two (2) copies) to the following address:

Permit Section, RCRA Unit
Division of Land Pollution Control
Illinois Environmental Protection Agency
2200 Churchill Road
P.O. Box 19276
Springfield, IL 62794-9276

If you have any questions regarding this letter, please contact Jim Floore at 217/782-9875.

Very truly yours,

Lawrence W. Eastep, P.E., Manager
Permit Section
Division of Land Pollution Control

LWE:JKH:cks/1238j/1244j/1-3

Enclosures

cc: Division File
Compliance
Peoria Region
USPEA Region V

DETACH

1	2	3	4	5	6
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26
7	8	9	10	11	12
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26

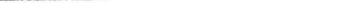
13	14	15	16	17	18
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26
19	20	21	22	23	24
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26
25	26	27	28	29	30
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26

31	32	33	34	35	36
U 0 0 9	U 1 3 3				
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26
37	38	39	40	41	42
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26
43	44	45	46	47	48
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26

[illegible]

☒ 4. TOXIC
(D000)

ADETACHA

SIGNATURE	NAME & OFFICIAL TITLE (type or print)	DATE SIGNED
	R. L. Claussen - Plant Manager	

U.S. ENVIRONMENTAL PROTECTION AGENCY
NOTIFICATION OF HAZARDOUS WASTE ACTIVITY

INSTRUCTIONS: If you received a preprinted label, affix it in the space at left. If any of this information on the label is incorrect, draw a line through it and supply the correct information in the appropriate section below. If the label is complete and correct, leave Items I, II, and III below blank. If you did not receive a preprinted label, complete all items. "Installation" means a single site where hazardous waste is generated, treated, stored and/or disposed of, or a transporter's principal place of business. Please refer to the INSTRUCTIONS FOR FILING NOTIFICATION before completing this form. The information requested herein is required by law (Section 3010 of the Resource Conservation and Recovery Act).

I. INSTALLATION'S EPA I.D. NO.

II. NAME OF INSTALLATION

III. INSTALLATION MAILING ADDRESS

IV. LOCATION OF INSTALLATION

PLEASE PLACE LABEL IN THIS SPACE

001115 AUG 1980

FOR OFFICIAL USE ONLY

COMMENTS

15	16																					55
----	----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

INSTALLATION'S EPA I.D. NUMBER													APPROVED			DATE RECEIVED (yr., mo., & day)					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
F	I	L	D	0	5	2	6	6	4	3	6	4	1	1	A	8	0	0	8	1	8

I. NAME OF INSTALLATION

30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51			
C	A	T	E	R	P	I	L	L	A	R	T	R	A	C	T	O	R	C	O	M	P	A	N	Y

II. INSTALLATION MAILING ADDRESS

STREET OR P.O. BOX

15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
3	R	O	U	T	E	2	4																							

CITY OR TOWN

ST.

ZIP CODE

40	41	42	43	44	45	46	47	48	49	50	51
A	P	L	E	T	O	N					
I	L	6	1	5	4	7					

III. LOCATION OF INSTALLATION

STREET OR ROUTE NUMBER

15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
5	S	A	M	E																										

CITY OR TOWN

ST.

ZIP CODE

15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
6																														

IV. INSTALLATION CONTACT

NAME AND TITLE (last, first, & job title)

PHONE NO. (area code & no.)

15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45				
2	R	L	C	L	A	U	S	S	E	N	P	L	A	N	T	M	A	N	A	G	E	R	3	0	9	-	6	7	5	-	8	6	0	1

V. OWNERSHIP

A. NAME OF INSTALLATION'S LEGAL OWNER

15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45		
8	C	A	T	E	R	P	I	L	L	A	R	T	R	A	C	T	O	R	C	O	M	P	A	N	Y							

B. TYPE OF OWNERSHIP (enter the appropriate letter into box)

VI. TYPE OF HAZARDOUS WASTE ACTIVITY (enter "X" in the appropriate box(es))

F = FEDERAL
M = NON-FEDERAL

M

☒ A. GENERATION☐ B. TRANSPORTATION (complete item VII)☒ C. TREAT/STORE/DISPOSE☐ D. UNDERGROUND INJECTION

VII. MODE OF TRANSPORTATION (transporters only - enter "X" in the appropriate box(es))

☐ A. AIR☐ B. RAIL☐ C. HIGHWAY☐ D. WATER☐ E. OTHER (specify):

VIII. FIRST OR SUBSEQUENT NOTIFICATION

Mark "X" in the appropriate box to indicate whether this is your installation's first notification of hazardous waste activity or a subsequent notification. If it is not your first notification, enter your Installation's EPA I.D. Number in the space provided below.

C. INSTALLATION'S EPA I.D. NO.

☒ A. FIRST NOTIFICATION☐ B. SUBSEQUENT NOTIFICATION (complete item C)

IX. DESCRIPTION OF HAZARDOUS WASTES

Please go to the reverse of this form and provide the requested information.

S	W	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

IX. DESCRIPTION OF HAZARDOUS WASTES (continued from front)

A. HAZARDOUS WASTES FROM NON-SPECIFIC SOURCES. Enter the four-digit number from 40 CFR Part 261.31 for each listed hazardous waste from non-specific sources your installation handles. Use additional sheets if necessary.

1 F 0 0 1 23 - 26	2 23 - 26	3 23 - 26	4 23 - 26	5 23 - 26	6 23 - 26
7 23 - 26	8 23 - 26	9 23 - 26	10 23 - 26	11 23 - 26	12 23 - 26

B. HAZARDOUS WASTES FROM SPECIFIC SOURCES. Enter the four-digit number from 40 CFR Part 261.32 for each listed hazardous waste from specific industrial sources your installation handles. Use additional sheets if necessary.

13 23 - 26	14 23 - 26	15 23 - 26	16 23 - 26	17 23 - 26	18 23 - 26
19 23 - 26	20 23 - 26	21 23 - 26	22 23 - 26	23 23 - 26	24 23 - 26
25 23 - 26	26 23 - 26	27 23 - 26	28 23 - 26	29 23 - 26	30 23 - 26

C. COMMERCIAL CHEMICAL PRODUCT HAZARDOUS WASTES. Enter the four-digit number from 40 CFR Part 261.33 for each chemical substance your installation handles which may be a hazardous waste. Use additional sheets if necessary.

31 U 2 2 6 23 - 26	32 P 0 9 0 23 - 26	33 U 2 2 8 23 - 26	34 U 1 2 2 23 - 26	35 U 1 8 8 23 - 26	36 U 1 5 4 23 - 26
37 23 - 26	38 23 - 26	39 23 - 26	40 23 - 26	41 23 - 26	42 23 - 26
43 23 - 26	44 23 - 26	45 23 - 26	46 23 - 26	47 23 - 26	48 23 - 26

D. LISTED INFECTIOUS WASTES. Enter the four-digit number from 40 CFR Part 261.34 for each listed hazardous waste from hospitals, veterinary hospitals, medical and research laboratories your installation handles. Use additional sheets if necessary.

49 23 - 26	50 23 - 26	51 23 - 26	52 23 - 26	53 23 - 26	54 23 - 26
---------------	---------------	---------------	---------------	---------------	---------------

E. CHARACTERISTICS OF NON-LISTED HAZARDOUS WASTES. Mark "X" in the boxes corresponding to the characteristics of non-listed hazardous wastes your installation handles. (See 40 CFR Parts 261.21 - 261.24.)

☒ 1. IGNITABLE
(D001)


☐ 2. CORROSIVE
(D002)

☐ 3. REACTIVE
(D003)

☒ 4. TOXIC
(D000)

X. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

SIGNATURE 	NAME & OFFICIAL TITLE (type or print) R. L. Claussen - Plant Manager	DATE SIGNED 8-14-80
--	---	------------------------



CATERPILLAR TRACTOR CO.

Mapleton, Illinois 61547

February 1, 1984

Mr. William H. Miner
Chief, Technical, Permits & Technical Section
USEPA - Region V
230 South Dearborn Street
Chicago, IL 60604

Dear Mr. Miner:

REF: 5HW-12
Part A Amendment Letters
Caterpillar Tractor Co.
ILS 052664364 G, TSD, -PA

This letter is in reply to your letter dated December 14, 1983, requesting further information.

The "biological treatment of phenolic waste" referred to in our letter dated October 10, 1983, has been in operation since February, 1980. This waste is from a tooling cleaning operation. The waste is stored in a tank and fed into an activated sludge system at a controlled rate. The effluent of that system is discharged to the Illinois River as part of our NPDES permitted discharge.

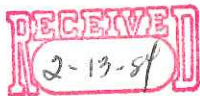
In our letter dated October 24, 1983, the reference should read 721.106 (a) (2). The slag is sold to a scrap metals dealer, for the purpose of reclaiming metal from the slag. An analysis of the slag is attached to this letter.

Sincerely,

R. L. Claussen
R. L. Claussen
Plant Manager

ml
Telephone: 309-675-8601

Attach.



Daily Analytical Laboratories

7807 N. Pioneer Lane • Peoria, Illinois 61615 Tel. 309-692-5252



Eugene J. Daily, Chairman

John P. Higgins, President

Otis E. Michels, Vice President

James F. Dallmeyer

Laboratory Director

TO: Caterpillar Tractor Company DATE RECEIVED 10-6-83
Mapleton Facility CLIENT P.O. #
Mapleton, IL 61547 D/A PROJECT # 5208.00
ATTENTION: Mr. Joe Baumgardner DATE OF REPORT 10-14-83

D/A SAMPLE NO.		3279-39				
SAMPLE DESCRIPTION		Slag As Received				
SAMPLE DATE		10-5-83				
Cyanide	mg/kg	2.8				
Phenol	mg/kg	< 0.80				
Sulfide	mg/kg	14				
pH	Units	7.1				
Ash	%	99.9%				
TOTAL METALS						
Arsenic	mg/kg	6.5				
Barium	mg/kg	4.0				
Cadmium	mg/kg	0.66				
Chromium	mg/kg	680				
Copper	mg/kg	1,490				
Lead	mg/kg	14				
Nickel	mg/kg	1,300				
Mercury	mg/kg	< 0.01				
Selenium	mg/kg	1.5				
Silver	mg/kg	2.2				
Zinc	mg/kg	17				

abbreviated report sheet

Analysis Certified By: 

James F. Dallmeyer, Laboratory Director

Analysis and Testing shall be performed in accord with U.S. EPA's current manual of practice or with other procedures acceptable to U.S. EPA and ILPA.

100% Recycled Paper

7807 N. Pioneer Lane • Peoria, Illinois 61615 Tel. 309-692-5252



Laboratory Director

DATE RECEIVED 10-6-83

CLIENT P.O. #

D/A PROJECT # 5208.00

DATE OF REPORT 10-14-83

abbreviated report sheet

James F. ~~Dallmeyer~~, Laboratory Director

Analysis and Testing shall be performed in accord with U.S. EPA's current manual of practice or with other procedures acceptable to U.S. EPA and IEPA.

DEC 14 1983

Mr. Ronald L. Claussen
 Plant Manager
 Caterpillar Tractor Company
 Route 24
 Mapleton, Illinois 61547

Re: Part A Amendment Letters
 Caterpillar Tractor Company
 ILD 052664364

Dear Mr. Claussen:

This letter is to acknowledge your letters dated October 10, 1983, and October 24, 1983, concerning amendments to your Part A permit application. Your amendment requests did not contain sufficient information to enable this office to concur with your determination. Specifically, we need detailed explanations of the following:

- (1) With regard to the letter dated October 10, 1983, please describe the present treatment system, how long it has been in use, the source of the waste, and the fate of the treated waste.
- (2) With regard to the letter dated October 24, 1983, we interpret your citation to mean section 721.106(a)(2), instead of section 725.106(a)(2). Please provide a detailed chemical and physical analysis of the slag, and also describe what happens to this material after it leaves your premises.

We will take no further action on your requests until we receive this information.

If you have any questions, please contact Mr. David Dolan of my staff at (312) 886-0994.

Sincerely yours,

ORIGINAL SIGNED BY
 WILLIAM H. MINER

William H. Miner, Chief
 Technical, Permits, and Technical Section

NS 12/13/83

5HW: D. DOLAN: ad	12/13/83	Disk #5							
INITIALS	TPYST	AUTHOR	STU #1	STU #2	STU #3	TPS	WMB	WMD	
	D. D.	D. D.	CHIEF			CHIEF	CHIEF	DIRECTOR	
DATE	12-13-83	12/13/83	for H.W.			12/14/83			

A481
CATERPILLAR®

A.2.3.

Caterpillar Inc.

East Peoria, Illinois 61630

USEPA

11 June, 1993

Carrie L. Rapp
Permit Section - Bureau of Land
Illinois Environmental Protection Agency
2200 Churchill Road
P.O. Box 19276
Springfield, IL 62794-19276

RECEIVED

JUN 16 1993

IEPA - BOL
PERMIT SECTION

ILD 052 664 604
Subject: Caterpillar Inc. East Peoria Plant
Part A RCRA Permit Application

Dear Ms. Rapp,

Caterpillar Inc. would like to modify the Part A RCRA Permit Application Form for the East Peoria Plant. As requested in your letter dated June 7, 1993, the changes outlined below have been completed on the new form.

Form 8700-23	Item V	Name changed.
	Item XII	Hazardous waste pile has been added.
	Item XIV	S03 Process code has been added.
	Item XVIII	Name changed.

Three copies of the modified Part A RCRA Permit Application are enclosed.

If you should have any questions please contact me at 309-675-2207.

E. Erich Michelfelder

E. Erich Michelfelder
Environmental Engineer
Caterpillar Inc. East Peoria
(309) 675-2207

For EPA Regional Use Only Date Received Month Day Year <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	United States Environmental Protection Agency Washington, DC 20460 <h1 style="margin: 0;">Hazardous Waste Permit Application</h1> <h2 style="margin: 0;">Part A</h2> <p><i>(Read the Instructions before starting)</i></p>	For State Use Only <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
I. ID Number(s) A. EPA ID Number B. Secondary ID Number (if applicable) <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> I L D 0 5 2 6 6 4 6 0 4 1 7 9 0 2 0 0 0 1 9 </div> <div style="width: 45%;"></div> </div>		
II. Name of Facility C A T E R P I L L A R I N C .		
III. Facility Location (Physical address not P.O. Box or Route Number) A. Street 6 0 0 W . W A S H I N G T O N S T R E E T Street (continued) <div style="border: 1px solid black; height: 20px; width: 100%;"></div>		
City or Town E A S T P E O R I A		State ZIP Code I L 6 1 6 3 0 -
County Code (if known) <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	County Name T A Z E W E L L	
B. Land Type (enter code) P	C. Geographic Location LATITUDE (degrees, minutes, & seconds) 4 0 4 0 0 3 8 LONGITUDE (degrees, minutes, & seconds) 0 8 9 3 5 0 5 0	D. Facility Existence Date Month Day Year <div style="border: 1px solid black; height: 20px; width: 100%;"></div> 1 9 2 5
IV. Facility Mailing Address Street or P.O. Box <div style="border: 1px solid black; height: 20px; width: 100%;"></div>		
City or Town <div style="border: 1px solid black; height: 20px; width: 100%;"></div>		State ZIP Code <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
V. Facility Contact (Person to be contacted regarding waste activities at facility) Name (last) (first) M I C H E L F E L D E R E . E R I C H		
Job Title E N V . E N G I N E E R		Phone Number (area code and number) 3 0 9 - 6 7 5 - 2 2 0 7
VI. Facility Contact Address (See Instructions) Contact Address B. Street or P.O. Box Location Mailing <div style="display: flex; justify-content: space-between;"> <div style="width: 20%;"> <input checked="" type="checkbox"/> </div> <div style="width: 80%; border: 1px solid black; height: 20px;"></div> </div>		
City or Town <div style="border: 1px solid black; height: 20px; width: 100%;"></div>		State ZIP Code <div style="border: 1px solid black; height: 20px; width: 100%;"></div>

EPA Form 8700-23 (01-90)

EPA I.D. Number (enter from page 1)										Secondary ID Number (enter from page 1)									
I	L	D	O	5	2	6	6	4	6	0	4								

XI. Nature of Business (provide a brief description)**XII. Process Codes and Design Capacities**

A. PROCESS CODE - Enter the code from the list of process codes below that best describes each process to be used at the facility. Twelve lines are provided for entering codes. If more lines are needed, attach a separate sheet of paper with the additional information. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided in item XIII.

B. PROCESS DESIGN CAPACITY - For each code entered in column A, enter the capacity of the process.

1. **AMOUNT** - Enter the amount. In a case where design capacity is not applicable (such as in a closure/post-closure or enforcement action) enter the total amount of waste for that process unit.

2. **UNIT OF MEASURE** - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

C. PROCESS TOTAL NUMBER OF UNITS - Enter the total number of units used with the corresponding process code.

PROCESS CODE	PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	UNIT OF MEASURE	UNIT OF MEASURE CODE
D79	DISPOSAL: INJECTION WELL	GALLONS; LITERS; GALLONS PER DAY; OR LITERS PER DAY	GALLONS	G
D80	LANDFILL	ACRE-FEET OR HECTARE-METER	GALLONS PER HOUR	E
D81	LAND APPLICATION	ACRES OR HECTARES	GALLONS PER DAY	U
D82	OCEAN DISPOSAL	GALLONS PER DAY OR LITERS PER DAY	LITERS	L
D83	SURFACE IMPOUNDMENT	GALLONS OR LITERS	LITERS PER HOUR	H
S01	STORAGE: CONTAINER	GALLONS OR LITERS	LITERS PER DAY	V
S02	(barrel, drum, etc.) TANK	GALLONS OR LITERS	SHORT TONS PER HOUR	D
S03	WASTE PILE	CUBIC YARDS OR CUBIC METERS	METRIC TONS PER HOUR	W
S04	SURFACE IMPOUNDMENT	GALLONS OR LITERS	SHORT TONS PER DAY	N
T01	TREATMENT: TANK	GALLONS PER DAY OR LITERS PER DAY	METRIC TONS PER DAY	S
T02	SURFACE IMPOUNDMENT	GALLONS PER DAY OR LITERS PER DAY	POUNDS PER HOUR	J
T03	INCINERATOR	SHORT TONS PER HOUR; METRIC TONS PER HOUR; GALLONS PER HOUR; LITERS PER HOUR; OR BTU'S PER HOUR	KILOGRAMS PER HOUR	R
T04	OTHER TREATMENT <small>(Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundment or incinerators. Describe the processes in the space provided in item XIII.)</small>	GALLONS PER DAY; LITERS PER DAY; POUNDS PER HOUR; SHORT TONS PER HOUR; KILOGRAMS PER HOUR; METRIC TONS PER DAY; METRIC TONS PER HOUR; OR SHORT TONS PER DAY	CUBIC YARDS	Y
			CUBIC METERS	C
			ACRES	B
			ACRE-FEET	A
			HECTARES	Q
			HECTARE-METER	F
			BTU's PER HOUR	K

EPA I.D. Number (enter from page 1)

Secondary ID Number (enter from page 1)

I L D 0 5 2 6 6 4 6 0 4

1 7 9 0 2 0 0 0 1 9

XII. Process - Codes and Design Capacities (continued)

EXAMPLE FOR COMPLETING ITEM XII (shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

Line Number	A. PROCESS CODE (from list above)			B. PROCESS DESIGN CAPACITY		C. PROCESS TOTAL NUMBER OF UNITS	FOR OFFICIAL USE ONLY			
				1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)					
X 1	S	0	2	600	G	0 0 2				
X 2	T	0	3	20	E	0 0 1				
1	S	0	1	20,750	G					
2	S	0	3	9,000	Y					
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

NOTE: If you need to list more than 12 process codes, attach an additional sheet(s) with the information in the same format as above. Number the lines sequentially, taking into account any lines that will be used for additional treatment processes in item XIII.

XIII. Additional Treatment Processes (follow instructions from item XII)

Line Number (enter numbers in sequence with item XII)	A. PROCESS CODE			B. TREATMENT PROCESS DESIGN CAPACITY		C. PROCESS TOTAL NUMBER OF UNITS	D. DESCRIPTION OF PROCESS
				1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)		
	T	0	4				
	T	0	4				
	T	0	4				
	T	0	4				

EPA I.D. Number (enter from page 1)												Secondary ID Number (enter from page 1)									
I	L	D	0	5	2	6	6	4	6	0	4	1	7	9	0	2	0	0	0	1	9

XIV. Description of Hazardous Wastes

- A. EPA HAZARDOUS WASTE NUMBER** - Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazardous waste you will handle. For hazardous wastes which are not listed in 40 CFR, Part 261 Subpart D, enter the four-digit number(s) from 40 CFR, Part 261 Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.
- B. ESTIMATED ANNUAL QUANTITY** - For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE** - For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES**1. PROCESS CODES:**

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item XII A. on page 3 to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous waste: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item XII A. on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that processes that characteristic or toxic contaminant.

NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:

1. Enter the first two as described above.
 2. Enter "000" in the extreme right box of Item XIV-D(1).
 3. Enter in the space provided on page 7, Item XIV-E, the line number and the additional code(s).
- 2. PROCESS DESCRIPTION:** If a code is not listed for a process that will be used, describe the process in the space provided on the form (D.(2)).

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

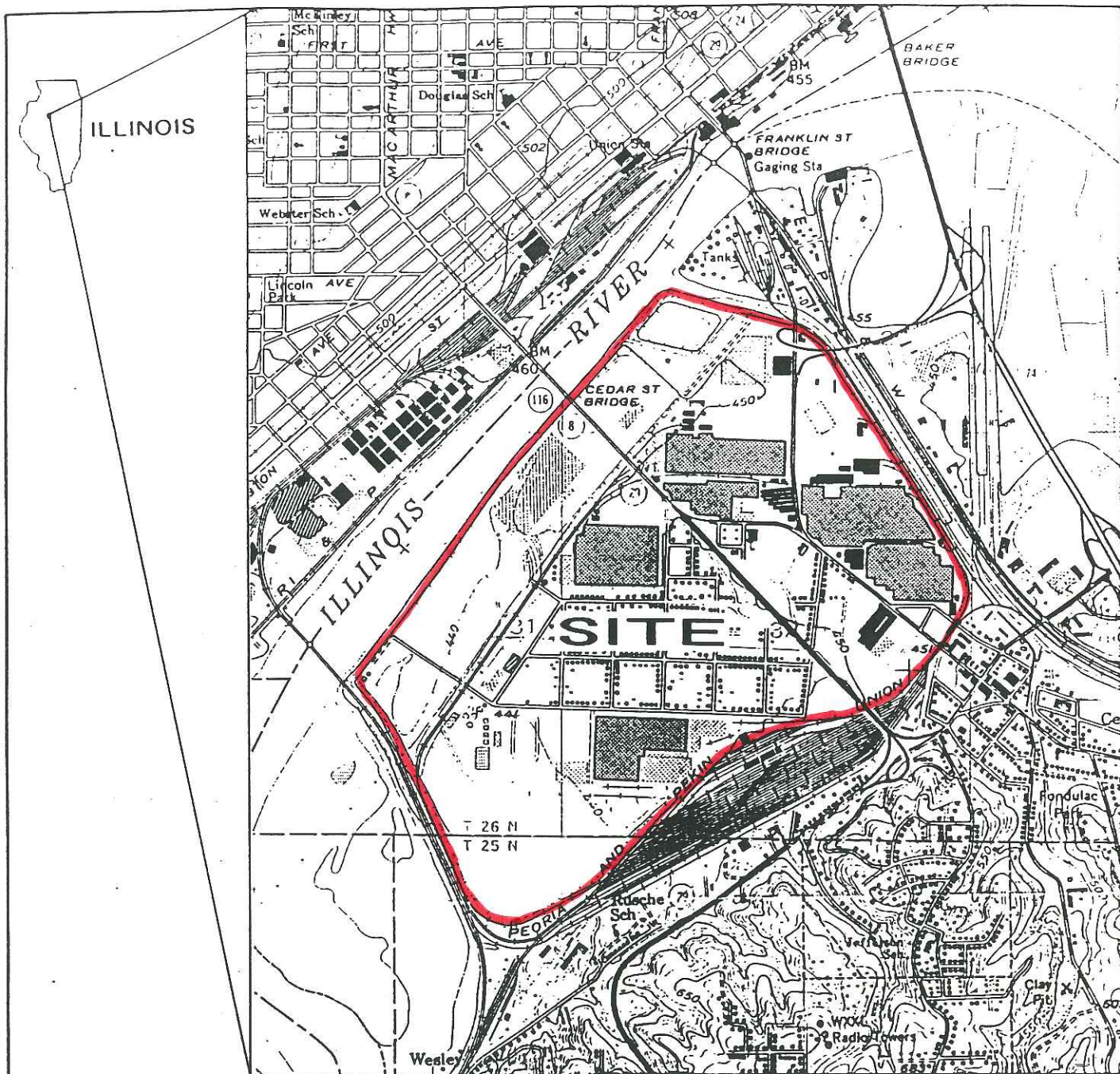
1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "Included with above" and make no other entries on that line.
3. Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM XIV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

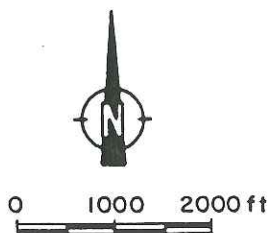
Line Number	A. EPA HAZARD WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESS										
				(1) PROCESS CODES (enter)					(2) PROCESS DESCRIPTION (if a code is not entered in D(1))					
X 1	K 0 5 4	900	P	T	0	3	D	8	0					
X 2	D 0 0 2	400	P	T	0	3	D	8	0					
X 3	D 0 0 1	100	P	T	0	3	D	8	0					
X 4	D 0 0 2									Included With Above				

EPA I.D. Number (enter from page 1)												Secondary ID Number (enter from page 1)												
I	L	D	0	5	2	6	6	4	6	0	4	1	7	9	0	2	0	0	0	1	9			
XIV. Description of Hazardous Wastes (continued)																								
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES																	
							(1) PROCESS CODES (enter)										(2) PROCESS DESCRIPTION (if a code is not entered in D(1))							
1	F	0	0	1	30,000	P	S	0	1															
2	F	0	0	2	SEE ATT. SHEET		S	0	1															
3	F	0	0	6	SEE ATT. SHEET	P	S	0	1															
4	F	0	0	7	SEE ATT. SHEET																			
5	F	0	0	8	SEE ATT. SHEET																			
6	F	0	0	9	SEE ATT. SHEET																			
7	F	0	0	5	50,000	P	S	0	1															
8	D	0	0	3	SEE ATT. SHEET	P	S	0	1															
9	U	1	5	4	SEE ATT. SHEET		S	0	1															
10	U	2	3	9	SEE ATT. SHEET		S	0	1															
11	U	1	2	3	SEE ATT. SHEET		S	0	1															
12	U	1	5	9	SEE ATT. SHEET		S	0	1															
13	U	1	2	2	SEE ATT. SHEET		S	0	1															
14	U	2	2	6	SEE ATT. SHEET		S	0	1															
15	U	2	1	0	SEE ATT. SHEET		S	0	1															
16	U	2	2	8	SEE ATT. SHEET		S	0	1															
17	F	0	0	3	50,000	P	S	0	1															
18	D	0	0	1	100,000		S	0	1															
19	D	0	0	2	SEE ATT. SHEET		S	0	1															
20	D	0	0	4	SEE ATT. SHEET		S	0	1															
21	F	0	0	5	SEE ATT. SHEET		S	0	1															
22	F	0	1	0	SEE ATT. SHEET		S	0	1															
23	U	0	1	3	SEE ATT. SHEET		S	0	1															
24	D	0	0	7	SEE ATT. SHEET		S	0	1															
25	D	0	0	8	SEE ATT. SHEET		S	0	1															
26	U	0	7	9	SEE ATT. SHEET		S	0	1															
27	D	0	1	8	SEE ATT. SHEET		S	0	1															
28	D	0	2	1	SEE ATT. SHEET		S	0	1															
29	D	0	2	2	SEE ATT. SHEET		S	0	1															
30	D	0	3	5	SEE ATT. SHEET		S	0	1															
31	D	0	3	9	SEE ATT. SHEET		S	0	1															
32	D	0	4	0	SEE ATT. SHEET		S	0	1															
33	*	*	*	*	SEE ATT. SHEET		S	0	3															
																							* SEE ATTACHED SHEET	

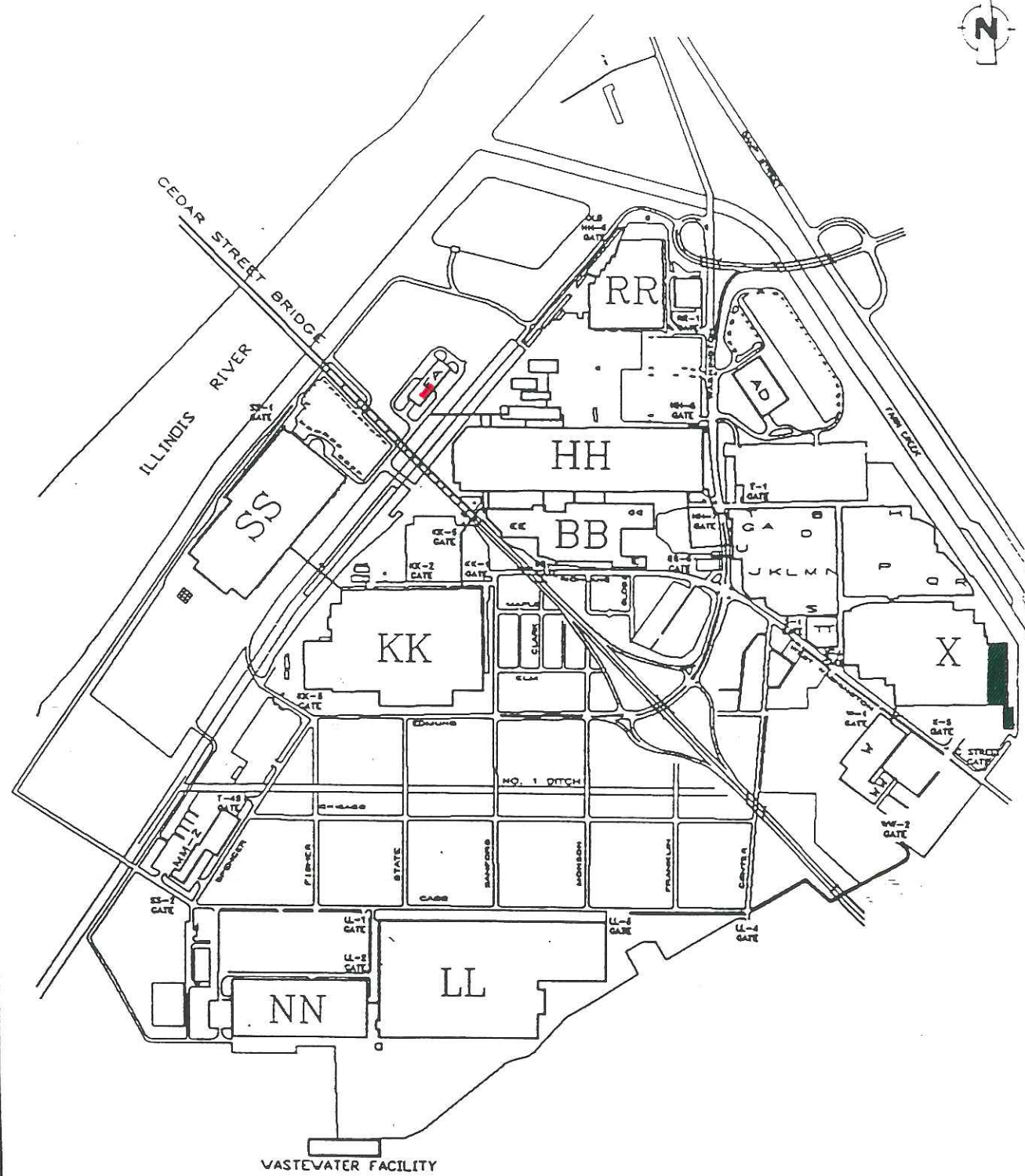
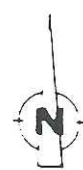
- 7 of 7 -



SOURCE: USGS Quadrangle Map, Photorevised 1979



SITE LOCATION
CATERPILLAR INC.
East Peoria, Illinois



- LEGEND**
- Drum Storage - 30 x 90 ft.
 - Waste Pile

FACILITY MAP
CATERPILLAR INC.
East Peoria, Illinois

Information Concerning Items
In Section XIV EPA Form 8700-23 (01-90)

Many wastes are not handled on a regular basis by this storage facility. There is a chance however, that storage of these materials will sometimes be necessary. For this reason, no estimated annual quantity can be stated.

Section XIV, column A, item 33, EPA Form 8700-23 (01-90)

No EPA hazardous waste code was specified for this item because it is contaminated environmental media. Caterpillar does not believe that this material is a hazardous waste, but we are managing the soil as a hazardous waste because it contains a hazardous constituent. This is an application of the "contained-in rule", therefore the mixture rule and derived-from rules do not apply. Management of the contaminated media as a hazardous waste will cease once the hazardous constituents are removed. Removal of the hazardous constituents is being handled through an IEPA approved Closure Plan titled "Closure Plan, Building X Soil Staging Area, dated September 25, 1992".



CATERPILLAR TRACTOR CO.

Mapleton, Illinois 61547

April 16, 1985

RCRA Activities
P. O. Box 43587
Chicago, IL 60690

Dear Sir:

Revised Part A Application - Mapleton
Caterpillar Tractor Co.
ILD052664364 G, TSD, PA

In our letter of December 21, 1984, we sent a revised application as referenced above. Please find enclosed a second replacement for Page 3, the first having been sent with our letter dated January 22, 1985.

This replacement page removes the SO2 treatment codes from the first two (2) items on the list, under the exemption for waste water treatment plants found in Section 725.101c10 of the Illinois Rules and Regulations.

Sincerely,

B. Claussen
Plant Manager
Mapleton Plant

RLClaussen
(309) 675-8601
kw

Attach.

cc: Dave Jansen - IEPA

RECEIVED
APR 23 1985

WMD-RAIU
EPA, REGION V



ILD 052664 364

CATERPILLAR TRACTOR CO.

Mapleton, Illinois 61547

January 22, 1985

RCRA Activities
P. O. Box 43587
Chicago, IL 60690

Dear Sir:

Revised Part A Application - Mapleton
Caterpillar Tractor Co.
ILD052664364 - G TSD, PA

In our letter of December 21, 1984, we sent a revised application as referenced above. Please find enclosed a replacement for Page 3. The original contained a typographical error.

Sincerely,

Environmental Engineer
Mapleton Plant

CFrench
Telephone: (309) 675-8425
kw

Attach.

cc: Larry Eastep, IEPA

RECEIVED
JAN 25 1985
WMD-RAIU
EPA REGION V

EPA I.D. NUMBER (enter from page 1)										FOR OFFICIAL USE ONLY									
W I L D 0 5 2 6 6 4 3 6 4										W I L D 0 5 2 6 6 4 3 6 4									
IV. DESCRIPTION OF HAZARDOUS WASTES (continued)																			
W Z O Z	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEAS- URE (enter code)	D. PROCESSES															
				1. PROCESS CODES (enter)				2. PROCESS DESCRIPTION (If a code is not entered in D(1))											
1	D 0 0 2	12759	P	S 0 1	S 0 2														
2	D 0 0 2	55176	P	S 0 1	S 0 2														
3	D 0 0 8	22000	P	S 0 1															
4	D 0 0 2	66211	P	S 0 1															
5	U 2 2 6	42000	P	S 0 1															
6	D 0 0 1	29977	P	S 0 1															
7	D 0 0 1	48784	P	S 0 1															
8	D 0 0 1	4400	P	S 0 1															
9	U 2 2 6	4400	P	S 0 1															
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CATERPILLAR TRACTOR CO.

Mapleton, Illinois 61547

December 21, 1984

RECEIVED
DEC 24 1984
WASTE MANAGEMENT
BRANCH

Mr. William H. Miner, Chief
Technical, Permits, and Compliance Section
USEPA
Region 5
230 S. Dearborn Street
Chicago, IL 60604

RECEIVED
DEC 27 1984

Dear Mr. Miner:

WMD-RAIU
EPA, REGION V

RCRA Part A Permit Application - Mapleton
Caterpillar Tractor Co.
ILDO52664364 G, TSD, PA

In response to your letter dated November 26, 1984, we enclose one (1) copy of our updated Part A Permit Application. Our Part A Application was originally filed on November 14, 1980. This update is made to clarify the paperwork involved. Changes made to the Application result from additions/deletions covered in previous letters and from increased knowledge of the hazardous wastes generated at the Mapleton Plant.

As requested in your letter, a map of the Mapleton Plant showing the location of the hazardous waste storage building is included in the application.

The Mapleton Plant does not have any hazardous waste storage tanks in use. At the time the original application was filed, a tank was used to store phenolic wastewater, prior to treatment or disposal. This handling system has been removed. Please remove the storage tank (SO₂) of 500 gallon capacity from our application.

Sincerely,

RL Claussen
Plant Manager
Mapleton Plant

RL Claussen
(309) 675-8601

Attach.

cc: Larry Eastep, IEPA

FORM 1 GENERAL	 EPA	U.S. ENVIRONMENTAL PROTECTION AGENCY GENERAL INFORMATION Consolidated Permits Program (Read the "General Instructions" before starting.)	I. EPA I.D. NUMBER <div style="border: 1px solid black; padding: 2px;"> F I L D 0 5 2 6 6 4 3 6 4 </div>
LABEL ITEMS EPA I.D. NUMBER III. FACILITY NAME V. FACILITY MAILING ADDRESS VI. FACILITY LOCATION		<div style="font-size: 2em; color: red; opacity: 0.5;">RECEIVED</div> <div style="color: red; font-weight: bold;">PLEASE PLACE LABEL IN THIS SPACE</div> <div style="color: red; font-weight: bold; margin-top: 10px;">DEC 27 1984</div> <div style="color: red; font-weight: bold; margin-top: 10px;">WMD-RAIU EPA, REGION V</div>	

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS	MARK 'X'			SPECIFIC QUESTIONS	MARK 'X'		
	YES	NO	FORM ATTACHED		YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		X		B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		X	
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)		X		D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	X		X	F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X		J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	

III. NAME OF FACILITY

1	SKIP	C.A.T.E.R.P.I.L.L.A.R. T.R.A.C.T.O.R. C.O.M.P.A.N.Y.
---	------	--

IV. FACILITY CONTACT

A. NAME & TITLE (last, first, & title)	B. PHONE (area code & no.)
2 R. L. CLAUSSEN PLANT MANAGER	3 0 9 6 7 5 8 6 0 1

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX	B. CITY OR TOWN	C. STATE	D. ZIP CODE
3 ROUTE 24	4 MAPLETON	IL	6 1 5 4 7

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER	B. COUNTY NAME	C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE (if known)
5 ROUTE 24	PEORIA	MAPLETON	IL	6 1 5 4 7	

VII. SIC CODES (4-digit, in order of priority)

A. FIRST										B. SECOND										
C	7	3	3	2	1	(specify)					C	7	(specify)							
15	16	17	18	19						15	16	17	18	19						
Gray Iron Foundry																				
C. THIRD										D. FOURTH										
C	7	(specify)								C	7	(specify)								
15	16	17	18	19						15	16	17	18	19						

VIII. OPERATOR INFORMATION

A. NAME																				B. Is the name listed in Item VIII-A also the owner?									
C	8	CATERPILLAR TRACTOR COMPANY																		55	56	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO							
15	16																			55	56								
C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)															D. PHONE (area code & no.)														
F = FEDERAL S = STATE P = PRIVATE					M = PUBLIC (other than federal or state) O = OTHER (specify)					P (specify)					C	A	3	0	9	C	6	7	5	C	1	0	0	0	
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40				
E. STREET OR P.O. BOX																													
100 NORTHEAST ADAMS STREET																													
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50					
F. CITY OR TOWN															G. STATE		H. ZIP CODE			IX. INDIAN LAND									
C	B	P	E	O	R	I	A								C	I	L	6			1	6	2	9	Is the facility located on Indian lands? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40				

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water)										D. PSD (Air Emissions from Proposed Sources)															
C	9	N	I L 0 0 0 1 8 3 0							C	9	P													
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
B. UIC (Underground Injection of Fluids)										E. OTHER (specify)															
C	9	U								C	9	(specify)													
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
C. RCRA (Hazardous Wastes)										E. OTHER (specify)															
C	9	R	A P P L I E D F O R I N 1 9 8 0							C	9	(specify)													
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

The Mapleton Plant of Caterpillar Tractor Company is a gray iron foundry producing castings solely for Caterpillar's use in the production of engines and heavy equipment.

NOTE: THIS IS AN UPDATE OF OUR ORIGINAL APPLICATION WHICH WAS FILED ON NOVEMBER 14, 1980. THIS UPDATE IS MADE TO REFLECT AMENDMENTS MADE SINCE THAT FILING.

XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)										B. SIGNATURE										C. DATE SIGNED									
R. L. Claussen - Plant Manager										<i>R L Claussen</i>										12-21-87									

COMMENTS FOR OFFICIAL USE ONLY

C																																								55
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40															

FORM 3 RCRA		EPA		U.S. ENVIRONMENTAL PROTECTION AGENCY HAZARDOUS WASTE PERMIT APPLICATION Consolidated Permits Program (This information is required under Section 3005 of RCRA.)		I. EPA I.D. NUMBER F I L D 0 5 2 6 6 4 3 6 4		T/A C 1																																																																																											
FOR OFFICIAL USE ONLY																																																																																																			
APPLICATION APPROVED		DATE RECEIVED (yr., mo., & day)		COMMENTS																																																																																															
23		24		29																																																																																															
II. FIRST OR REVISED APPLICATION																																																																																																			
Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in Item I above. NOTE: THIS IS A REVISED APPLICATION.																																																																																																			
A. FIRST APPLICATION (place an "X" below and provide the appropriate date)																																																																																																			
<input checked="" type="checkbox"/> 1. EXISTING FACILITY (See instructions for definition of "existing" facility. Complete item below.)					<input type="checkbox"/> 2. NEW FACILITY (Complete item below.)																																																																																														
71					71																																																																																														
C YR. MO. DAY 8 6 7 1 2					FOR EXISTING FACILITIES, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the boxes to the left)																																																																																														
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B. REVISED APPLICATION (place an "X" below and complete Item I above)																																																																																																			
<input checked="" type="checkbox"/> 1. FACILITY HAS INTERIM STATUS					<input type="checkbox"/> 2. FACILITY HAS A RCRA PERMIT																																																																																														
72					72																																																																																														
III. PROCESSES - CODES AND DESIGN CAPACITIES																																																																																																			
A. PROCESS CODE - Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided on the form (Item III-C).																																																																																																			
B. PROCESS DESIGN CAPACITY - For each code entered in column A enter the capacity of the process.																																																																																																			
1. AMOUNT - Enter the amount.																																																																																																			
2. UNIT OF MEASURE - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.																																																																																																			
<table border="1"><thead><tr><th>PROCESS</th><th>PRO-CESS CODE</th><th>APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY</th><th>PROCESS</th><th>PRO-CESS CODE</th><th>APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY</th></tr></thead><tbody><tr><td>Storage:</td><td></td><td></td><td>Treatment:</td><td></td><td></td></tr><tr><td>CONTAINER (barrel, drum, etc.)</td><td>S01</td><td>GALLONS OR LITERS</td><td>TANK</td><td>T01</td><td>GALLONS PER DAY OR LITERS PER DAY</td></tr><tr><td>TANK</td><td>S02</td><td>GALLONS OR LITERS</td><td>SURFACE IMPOUNDMENT</td><td>T02</td><td>GALLONS PER DAY OR LITERS PER DAY</td></tr><tr><td>WASTE PILE</td><td>S03</td><td>CUBIC YARDS OR CUBIC METERS</td><td>INCINERATOR</td><td>T03</td><td>TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR</td></tr><tr><td>SURFACE IMPOUNDMENT</td><td>S04</td><td>GALLONS OR LITERS</td><td></td><td>T04</td><td>GALLONS PER DAY OR LITERS PER DAY</td></tr><tr><td>Disposal:</td><td></td><td></td><td colspan="3">OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Item III-C.)</td></tr><tr><td>INJECTION WELL</td><td>D79</td><td>GALLONS OR LITERS</td><td></td><td></td><td></td></tr><tr><td>LANDFILL</td><td>D80</td><td>ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER</td><td></td><td></td><td></td></tr><tr><td>LAND APPLICATION</td><td>D81</td><td>ACRES OR HECTARES</td><td></td><td></td><td></td></tr><tr><td>OCEAN DISPOSAL</td><td>D82</td><td>GALLONS PER DAY OR LITERS PER DAY</td><td></td><td></td><td></td></tr><tr><td>SURFACE IMPOUNDMENT</td><td>D83</td><td>GALLONS OR LITERS</td><td></td><td></td><td></td></tr></tbody></table>										PROCESS	PRO-CESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS	PRO-CESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	Storage:			Treatment:			CONTAINER (barrel, drum, etc.)	S01	GALLONS OR LITERS	TANK	T01	GALLONS PER DAY OR LITERS PER DAY	TANK	S02	GALLONS OR LITERS	SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY	WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS	INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR	SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS		T04	GALLONS PER DAY OR LITERS PER DAY	Disposal:			OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Item III-C.)			INJECTION WELL	D79	GALLONS OR LITERS				LANDFILL	D80	ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER				LAND APPLICATION	D81	ACRES OR HECTARES				OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITERS PER DAY				SURFACE IMPOUNDMENT	D83	GALLONS OR LITERS																					
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EXAMPLE FOR COMPLETING ITEM III (shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.																																																																																																			
<table border="1"><thead><tr><th>S</th><th>C</th><th>DUP</th><th>T/A</th><th>C</th><th>1</th><th>2</th><th>13</th><th>14</th><th>15</th></tr></thead><tbody><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>										S	C	DUP	T/A	C	1	2	13	14	15																																																																																
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LINE NUMBER	A. PRO-CESS CODE (from list above)	B. PROCESS DESIGN CAPACITY			FOR OFFICIAL USE ONLY	LINE NUMBER	A. PRO-CESS CODE (from list above)	B. PROCESS DESIGN CAPACITY				FOR OFFICIAL USE ONLY																																																																																							
		1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)					1. AMOUNT	2. UNIT OF MEASURE (enter code)																																																																																										
X-1	S 0 2	600	G			5																																																																																													
X-2	T 0 3	20	E			6																																																																																													
1	S 0 1	33000				7																																																																																													
						8																																																																																													
3						9																																																																																													
4						10																																																																																													

III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

IV. DESCRIPTION OF HAZARDOUS WASTES

A. EPA HAZARDOUS WASTE NUMBER — Enter the four-digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. ESTIMATED ANNUAL QUANTITY — For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE — For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE **CODE**
 POUNDS..... P
 TONS..... T

METRIC UNIT OF MEASURE **CODE**
 KILOGRAMS..... K
 METRIC TONS..... M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES**1. PROCESS CODES:**

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES	
				1. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K 0 5 4	900	P	T 0 3 D 8 0	
X-2	D 0 0 2	400	P	T 0 3 D 8 0	
X-3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2				included with above

EPA I.D. NUMBER (enter from page 1)													FOR OFFICIAL USE ONLY														
W I L D 0 5 2 6 6 4 3 6 4													W DUP														
T/A C 1													T/A C 2 DUP														
DESCRIPTION OF HAZARDOUS WASTES (continued)																											
LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES																							
				1. PROCESS CODES (enter)																							
				2. PROCESS DESCRIPTION (if a code is not entered in D(1))																							
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
1	D 0 0 2	12759	P	S 0 1	S 0 2									T 0 1													
2	D 0 0 2	55176	P	S 0 1	S 0 2									T 0 1													
3	D 0 0 8	22000	P	S 0 1																							
4	D 0 0 2	66211	P	S 0 1																							
5	U 2 2 6	42000	P	S 0 1																							
6	D 0 0 1	29977	P	S 0 1																							
7	D 0 0 1	48784	P	S 0 1																							
8	D 0 0 1	4400	P	S 0 1																							
9	U 2 2 6	4400	P	S 0 1																							
10																											
11																											
12																											
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21																											
22																											
23																											
24																											
25																											
26																											

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)**E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 3.**

NA

EPA I.D. NO. (enter from page 1)

S	I	L	D	0	5	2	6	6	4	3	6	4	T/A	C	
F	I	L	D	0	5	2	6	6	4	3	6	4		6	
1	2												13	14	15

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility (see instructions for more detail).

VI. PHOTOGRAPHS

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

VII. FACILITY GEOGRAPHIC LOCATION

LATITUDE (degrees, minutes, & seconds)

4	0	3	3	0	3	5
65	66	67	68	69	70	71

LONGITUDE (degrees, minutes, & seconds)

0	8	9	4	5	0	0	8
72	73	74	75	76	77	78	79

VIII. FACILITY OWNER

☒ A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER

2. PHONE NO. (area code & no.)

3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE																								
F	G																										
15	16	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)

R. L. Claussen, Plant Manager

B. SIGNATURE

R. L. Claussen

C. DATE SIGNED

12-21-84

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)

R. L. Claussen, Plant Manager

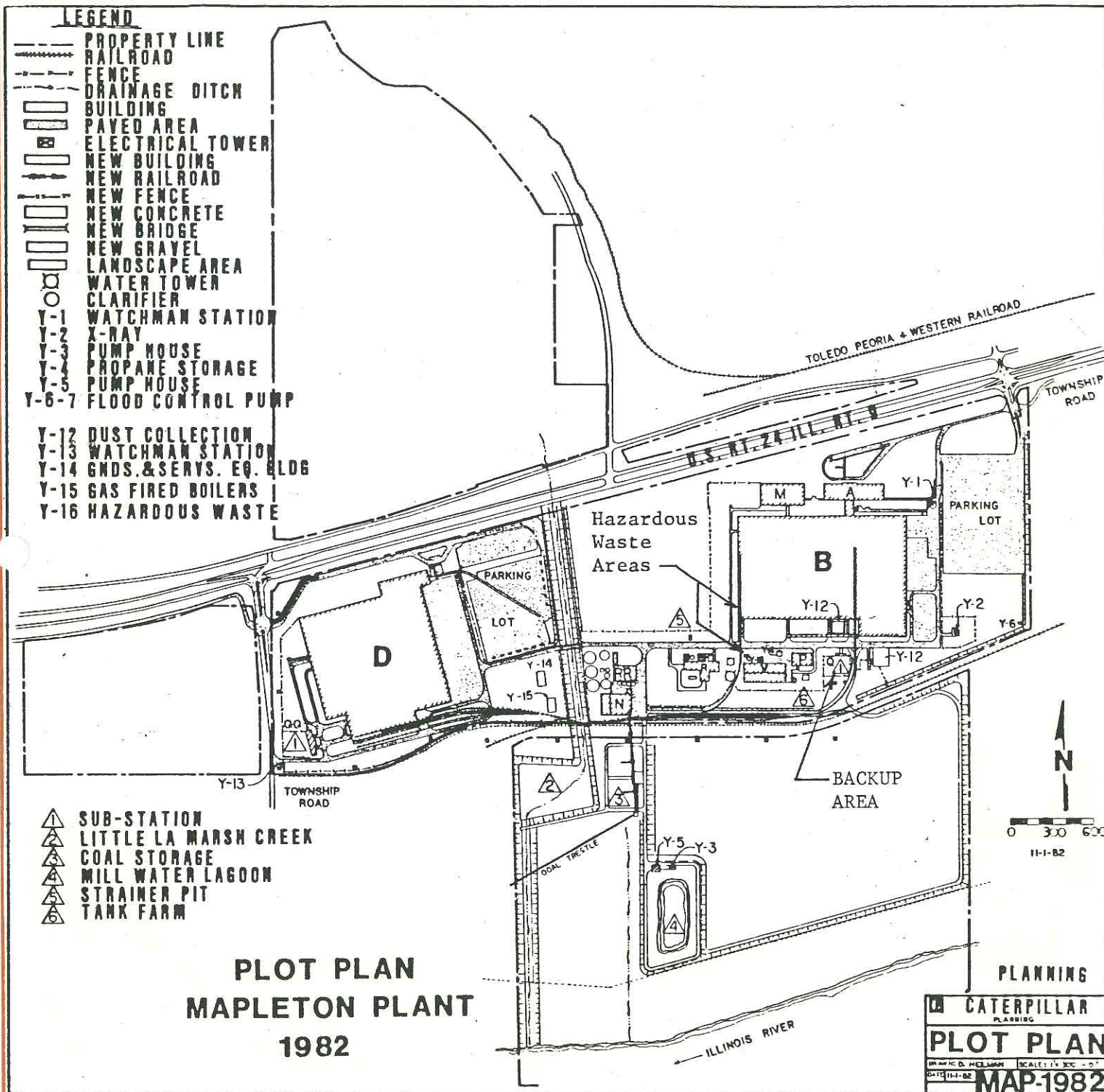
B. SIGNATURE

R. L. Claussen

C. DATE SIGNED

12-21-84

V. FACILITY DRAWING (see page 4)



VI. Refer to original filing dated November 14, 1980, for photographs and marked USGS maps.

NOV 26 1984

5HW-12

R.L. Claussen, Plant Manager
Caterpillar Tractor Company
Mapleton, Illinois 61547

Re: Revised Part A Permit Application
Caterpillar Tractor Company
ILD 052664364

Dear Mr. Claussen:

In response to your request of February 1, 1984, we have deleted the biological treatment of phenolic wastes (T01) and the treatment of slag containing calcium carbide (T04) from your Part A permit application. These processes are exempt from the treatment and storage provisions of the Resource Conservation and Recovery Act according to 40 CFR §265.1(c)(10) and §261.6(a), respectively.

Your request of July 11, 1984, proposed the addition of a new building to be used to store wastes that are now located in the facility's storage yard. According to Ms. Cary French of your staff, the change does not constitute a change in the facility's storage capacity; the container storage capacity (S01) would remain at 33,000 gallons, and the tank storage capacity (S02), at 500 gallons. Ms. French also said that the storage in tanks (S02) had been deleted from the Part A permit application in August, 1983, but our records show no such deletion. Please explain the uses and capacities of any hazardous waste storage tanks at your facility.

Before we can include the proposed building in your Part A permit application, we need to know the exact location of the building on your property. Please provide us with a revised Part A permit application (enclosed), which includes a map of your facility.

Feel free to contact Ann Brash, at (312) 886-1476, if you have any questions regarding this matter.

Sincerely yours,

William H. Miner, Chief
Technical, Permits, and Compliance Section

cc: Larry Eastep, IEPA

5HW-12:A.Brash:fr:10/24/84:rev.11/19/84

INITIALS	DATE	TYPYST	AUTHOR	STU #1 CHIEF	STU #2 CHIEF	STU #3 CHIEF	TPS CHIEF	WMB CHIEF	WMD DIRECTOR
	11-19-84	AM	u- 4/20/84	11/21/84			11/21/84		

Encl. 11/21/84



CATERPILLAR TRACTOR CO.

Mapleton, Illinois 61547

July 11, 1984

USEPA Region V
RCRA Activities
P. O. Box 7861
Chicago, IL 60680

Dear Sir:

EPA I. D. No. ILD052664364

G, TSD, PA

In our letter dated November 14, 1980, the Mapleton Plant filed Part A of the Hazardous Waste Treatment Permit Application. We wish to add a new storage building to that application.

Building "Y-16" is a metal building located on a concrete slab, with complete curbs. The building is sized to store approximately five hundred (500) drums.

Sincerely,

R. L. Claussen
Plant Manager

ml

Telephone: 309-675-8601

cc: IEPA - DLPC

RECEIVED

AUG 14 1984

**WMD-RAIU
EPA, REGION V**

CONVERSATION RECORD

TIME 10:10

DATE 10/1/84

TYPE

☐ VISIT

☐ CONFERENCE

☐ TELEPHONE

☐ INCOMING

☐ OUTGOING

Outgoing phone call

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU

Cary French

ORGANIZATION (Office, dept., bureau, etc.)

Caterpillar

TELEPHONE NO.

309-675-8425

SUBJECT

Part A Revision

ROUTING

NAME/SYMBOL

INT

SUMMARY

The facility wants to add storage space, but the amount of wastes that will be stored is the same as that on the Part A.: about 33000 gallons. The company no longer stores anything in tanks. All of the drums used to be located outside; they will now use a metal building to store them. No building will be constructed; it is already in existence. The building is on the same property as the yard where the wastes are being stored now.

ACTION REQUIRED

NAME OF PERSON DOCUMENTING CONVERSATION

SIGNATURE

DATE

Ann Brash

10/1/84

ACTION TAKEN

SIGNATURE

TITLE

DATE

CONVERSATION RECORD

TIME 2:00 pm

DATE 10/21/84

TYPE

☐ VISIT☐ CONFERENCE☐ TELEPHONE

Outgoing phone call

☐ INCOMING☐ OUTGOING

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT
WITH YOU David JansonORGANIZATION (Office, dept., bureau,
etc) DL EPATELEPHONE NO.
217-786-6892

SUBJECT Part A Revision

ROUTING

NAME/SYMBOL

INT

SUMMARY

Mr. Janson felt that the company would be adding storage capacity of 500 drums. He also said that as of an inspection and letter to EPA on August 19, 1983, the T01 and S02 codes were removed from the Part A; he said that because these were part of a wastewater treatment system, these codes were no longer applicable.

ACTION REQUIRED

NAME OF PERSON DOCUMENTING CONVERSATION

SIGNATURE

DATE

Ann Brash

ACTION TAKEN

SIGNATURE

TITLE

DATE



CATERPILLAR TRACTOR CO.

Mapleton, Illinois 61547

October 10, 1983

RECEIVED

OCT 26 1983

WASTE MANAGEMENT BRANCH
EPA, REGION V

USEPA Region V
RCRA Activities
P. O. Box 7861
Chicago, IL 60680

Dear Sir:

EPA ID No. ILD052664364 *PA, G, TSD*

In our letter dated November 14, 1980, the Mapleton Plant filed Part A of the Hazardous Waste Treatment Permit Application. We wish to delete the following item, pursuant to section 725.101 (c) (10) of the 35 Illinois Administrative Code:

Treatment Process
Process Cost
Amount
Unit of Measure Code

Biological Treatment of Phenolic Waste
T01
20
U (Originally filed as G)

Very truly yours,

R. L. Claussen

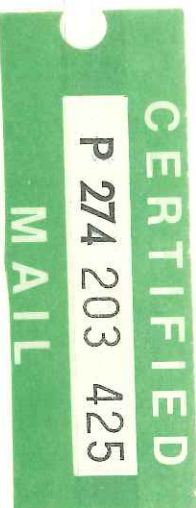
R. L. Claussen
Plant Manager

ml
Telephone: 309-675-8601

cc: R. E. Schwab
T. C. Mayer
IEPA/DLPC

RECEIVED
11/16/83

DATE RECEIVED MAILING 12





CATERPILLAR TRACTOR CO.

Mapleton, Illinois 61547

October 24, 1983

RECEIVED

NOV 02 1983

WASTE MANAGEMENT BRANCH
EPA, REGION V

USEPA Region V
RCRA Activities
P. O. Box 7861
Chicago, IL 60680

Dear Sir:

EPA ID No. ILD052664364 *PA, G, TSO*

In our letter dated November 14, 1980, the Mapleton Plant filed Part A of the Hazardous Waste Treatment Permit Application. We wish to delete the following item, pursuant to section 725.106 (a) (2) of the 35 Illinois Administrative Code:

Treatment Process	Other
Process Cost	T04
Amount	12,459 Liters/Day
Unit of Measure Code	V
Description of Process	Treatment of slag containing calcium carbide.

Very truly yours,

R. L. Claussen
R. L. Claussen
Plant Manager

m1
Telephone: 309-675-8601

cc: R. E. Schwab
T. C. Mayer
IEPA/DLPC

RECEIVED
11/02/83

U.S. POSTAL SERVICE



CERTIFIED
P 274 203 409
MAIL



CATERPILLAR TRACTOR CO.

RECEIVED

JUN 24 1982

WASTE MANAGEMENT BRANCH
EPA, REGION V

Mapleton, Illinois 61547

June 18, 1982

g, TSD, PA

E.P.A. Region V
R.C.R.A. Activities
P. O. Box 7861
Chicago, IL 60680

Dear Sir:

E.P.A. I.D. No. ILD052664364 *gmb*

In our letter dated November 14, 1980, the Mapleton Plant filed Part "A" of the Hazardous Waste Treatment Permit Application. We wish to make the following addition to that application:

Treatment Process	- Other
Process Code	- T04
Amount	- 12,459 Liters/Day
Unit Of Measure Code	- V

Description Of Process - Foundry slag containing calcium carbide is exposed to water to hydrolyze it and render the slag non-hazardous for disposal.

Your prompt attention to this matter will be greatly appreciated.

Very truly yours,

R. L. Claussen
R. L. Claussen
Plant Manager

Telephone: (309) 675-8601
bkn

cc: Mr. C. H. Meurer
Mr. S. C. Hoffman
Mr. S. J. Beyers

RECEIVED
6/24/82

CERTIFIED
P23 2567253
MAIL



CATERPILLAR TRACTOR CO.

Mapleton, Illinois 61547

March 10, 1982

E.P.A. Region V
R.C.R.A. Activities
P. O. Box 7861
Chicago, IL 60680

Dear Sir:

gmo
E.P.A. I.D. No. ILD052664364

In our letter dated November 14, 1980, the Mapleton Plant filed Part "A" of the Hazardous Waste Permit Application. At that time, we included a "T04" treatment process at a rate of 500 liters per day.

In view of the rule change regarding mixtures of solid and hazardous wastes as printed in the November 17, 1981, Federal Register, this treatment process is no longer covered by R.C.R.A. Please remove this item from your consideration of our permit application.

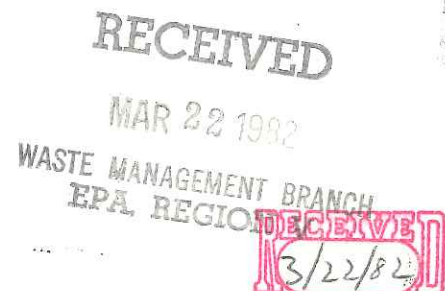
Your prompt reply concerning this matter will be greatly appreciated.

Very truly yours,

R. L. Claussen
R. L. Claussen
Plant Manager

Telephone: (309) 675-8601
bkn

cc: Mr. W. W. Dodge
Mr. S. J. Beyers
Mr. S. C. Hoffman





CATERPILLAR TRACTOR CO.

Mapleton, Illinois 61547

November 14, 1980

E.P.A. Region V
R.C.R.A. Activities
P. O. Box 7861
Chicago, Illinois 60680

Dear Sirs:

Attached is our Part A Application for a hazardous waste permit
for the Mapleton Plant.

The E.P.A. Identification Number is ILD0052664364.

Very truly yours,

Donald F. Domnick
Vice-President

Telephone: (309) 675-5861
bkn

Attachment

FORM 1 GENERAL		ENVIRONMENTAL PROTECTION AGENCY GENERAL INFORMATION Consolidated Permits Program (Read the "General Instructions" before starting.)		I. EPA I.D. NUMBER F I L D 0 0 5 2 6 6 4 3 6 4	
LABEL ITEMS		PLEASE PLACE LABEL IN THIS SPACE 1LD052664364		GENERAL INSTRUCTIONS If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.	
EPA I.D. NUMBER					
III. FACILITY NAME					
V. FACILITY MAILING ADDRESS					
VI. FACILITY LOCATION					

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS	MARK 'X'			SPECIFIC QUESTIONS	MARK 'X'		
	YES	NO	FORM ATTACHED		YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		X		B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		X	
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)		X		D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	X		X	F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X		J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	

III. NAME OF FACILITY

1	SKIP	C A T E R P I L L A R T R A C T O R C O M P A N Y
---	------	---

IV. FACILITY CONTACT

A. NAME & TITLE (last, first, & title)		B. PHONE (area code & no.)	
2	R L CLAUSSEN PLANT MANAGER	309	675 8601

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX		B. CITY OR TOWN		C. STATE	D. ZIP CODE
3	ROUTE 24	4	MAPLETON	IL	61547

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER		B. COUNTY NAME		C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE (if known)
5	ROUTE 24	6	PEORIA	MAPLETON	IL	61547	

CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)

A. FIRST										B. SECOND									
(specify)										(specify)									
7 3,3,2,1										7 3,3,2,4									
Gray Iron Foundry										Steel Investment Foundry									
C. THIRD										D. FOURTH									
(specify)										(specify)									
7										7									

VIII. OPERATOR INFORMATION

A. NAME																									B. Is the name listed in Item VIII-A also the owner?				
8 CATERPILLAR TRACTOR COMPANY																									<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO				
C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)																									D. PHONE (area code & no.)				
F = FEDERAL										M = PUBLIC (other than federal or state)										(specify)					C				
S = STATE										O = OTHER (specify)										P					A				
P = PRIVATE																				36					15 16 17 18 19 20 21 22 23 24 25				
E. STREET OR P.O. BOX																													
100 NORTHEAST ADAMS STREET																													
F. CITY OR TOWN															G. STATE					H. ZIP CODE					IX. INDIAN LAND				
B PEORIA															I L					6 1 6 2 9					Is the facility located on Indian lands?				
																									<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water)										D. PSD (Air Emissions from Proposed Sources)									
9 N										9 P									
B. UIC (Underground Injection of Fluids)										E. OTHER (specify)									
9 U										(specify)									
C. RCRA (Hazardous Wastes)										E. OTHER (specify)									
9 R										(specify)									

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

The Mapleton Plant of Caterpillar Tractor Company is a Gray Iron Foundry producing castings solely for Caterpillar's use in the production of engines and heavy equipment.

XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
Donald F. Domnick - Vice-President	<i>Donald F. Domnick</i>	11/17/80

COMMENTS FOR OFFICIAL USE ONLY

C
C



(fill-in areas are spaced for elite type, i.e., 12 characters/inch).

Form Approved OMB No. 158-S80004

FORM 3 RCRA	EPA	U.S. ENVIRONMENTAL PROTECTION AGENCY HAZARDOUS WASTE PERMIT APPLICATION Consolidated Permits Program (This information is required under Section 3005 of RCRA.)	I. EPA I.D. NUMBER																
			F I L D 0 0 5 2 6 6 4 3 6 4 1																
FOR OFFICIAL USE ONLY																			
APPLICATION APPROVED										DATE RECEIVED (yr., mo., & day)					COMMENTS				
23										24					29				

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in Item I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate date)

☒ 1. EXISTING FACILITY (See instructions for definition of "existing" facility. Complete item below.)

☐ 2. NEW FACILITY (Complete item below.)

FOR EXISTING FACILITIES, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the boxes to the left)

FOR NEW FACILITIES, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION (place an "X" below and complete Item I above)

☐ 1. FACILITY HAS INTERIM STATUS

☐ 2. FACILITY HAS A RCRA PERMIT

III. PROCESSES - CODES AND DESIGN CAPACITIES

A. PROCESS CODE - Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided on the form (Item III-C).

B. PROCESS DESIGN CAPACITY - For each code entered in column A enter the capacity of the process.

1. AMOUNT - Enter the amount.

2. UNIT OF MEASURE - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:			Treatment:		
CONTAINER (barrel, drum, etc.)	S01	GALLONS OR LITERS	TANK	T01	GALLONS PER DAY OR LITERS PER DAY
TANK	S02	GALLONS OR LITERS	SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS	INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS	OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Item III-C.)	T04	GALLONS PER DAY OR LITERS PER DAY
Injection Well	D79	GALLONS OR LITERS			
LANDFILL	D80	ACRE-Feet (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER			
LAND APPLICATION	D81	ACRES OR HECTARES			
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITERS PER DAY			
SURFACE IMPOUNDMENT	D83	GALLONS OR LITERS			

UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G	LITERS PER DAY	V	ACRE-Feet	A
LITERS	L	TONS PER HOUR	D	HECTARE-METER	F
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	B
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	Q
GALLONS PER DAY	U	LITERS PER HOUR	H		

EXAMPLE FOR COMPLETING ITEM III (shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY		FOR OFFICIAL USE ONLY	LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY		FOR OFFICIAL USE ONLY
		1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)				1. AMOUNT	2. UNIT OF MEASURE (enter code)	
X-1	S 0 2	600	G		5				
X-2	T 0 3	20	E		6				
1	S 0 1	33000	G		7				
2	S 0 2	500	G		8				
3	T 0 4	0.03	D		9				
4	T 0 1	20	G		10				

II. PROCESSES (continued)

SPACE FOR ADDITIONAL PROCESS CODES (code "1" DESCRIBING OTHER PROCESSES (code "1" FOR EACH PROCESS ENTERED HERE
INCLUDE DESIGN CAPACITY.

Line 3) Waste dust from a dust collection system is mixed with water and formed into pellets to improve the handling quality of the dust.

V. DESCRIPTION OF HAZARDOUS WASTES

EPA HAZARDOUS WASTE NUMBER — Enter the four-digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

ESTIMATED ANNUAL QUANTITY — For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

UNIT OF MEASURE — For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE CODE
POUNDS P
TONS T

METRIC UNIT OF MEASURE CODE
KILOGRAMS K
METRIC TONS M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

PROCESSES**1. PROCESS CODES:**

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. EPA HAZ. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES	
				1. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K 0 5 4	900	P	T 0 3 D 8 0	
X-2	D 0 0 2	400	P	T 0 3 D 8 0	
X-3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2				included with above

EPA I.D. NUMBER (enter from page 1)

FOR OFFICIAL USE ONLY

W	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	

W	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	

IV DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES	
				1. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	D 0 0 2	10759	P	S 0 1 S 0 2	T 0 1
2	D 0 0 2	66211	P	S 0 1	
3	D 0 0 2	55176	P	S 0 1 S 0 2	T 0 1
4	D 0 0 2	36784	P	S 0 1	
5	D 0 0 6				Included With Above
6	U 1 2 2	5977	P	S 0 1	
7	D 0 0 1	172149	P	S 0 1	
8	U 2 2 6		P	S 0 1	Included With Above
9	D 0 0 1	321860	P	S 0 1	
10	F 0 1 7	1075932	P	S 0 1 S 0 2	De-listed
11	D 0 0 6	480000	P	S 0 2	T 0 4
12	D 0 0 8				Included With Above
13	D 0 0 1	400	P	S 0 1	
14	U 2 2 8	5	P	S 0 1	
15	U 2 2 6	30000	P	S 0 1	
16	U 2 2 6	12000	P	S 0 1	
17	U 1 2 2	2000	P	S 0 1	
18	U 1 5 4				Included With Above
19	D 0 0 1	1000	P	S 0 1	
20	U 1 8 8	12000	P	S 0 1	
21	D 0 0 1				Included With Above
22	U 1 2 2				Included With Above
23	U 0 0 9	24000	P	S 0 1	
24	U 1 3 3	1000	P	S 0 1	
25	D 0 0 2	2000	P	S 0 1	
26	D 0 1 3	5	P	S 0 1	

(continued)

PROCESS CODES FROM ITEM D(1) ON P.

14052664364

EPA I.D. NO. (enter from page 1)															
S													T/A	C	
F	I	L	D	0	0	5	2	6	6	4	3	6	4	6	
1	2												13	14	15

All existing facilities must include in the space provided on page 5 a scale drawing of the facility. (see instructions for more detail). NA

All existing facilities must include photographs (*aerial or ground-level*) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (*see instructions for more detail*). NA

LATITUDE (degrees, minutes, & seconds)

4	0	3	3	0	3	5
65	66	67	68	69	70	71

LONGITUDE (degrees, minutes, & seconds)


0	8	9	4	5	0	0	8
72	-	73	75	76	77	-	78

☒ A: If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.


B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER															2. PHONE NO. (area code & no.)									
<div style="border: 1px solid black; padding: 2px;"> <div style="display: flex; justify-content: space-between;"> C E </div> <div style="display: flex; justify-content: space-between;"> 15 16 </div> </div>															<div style="border: 1px solid black; padding: 2px;"> <div style="display: flex; justify-content: space-between;"> 55 56 58 59 61 62 65 </div> </div>									
3. STREET OR P.O. BOX										4. CITY OR TOWN					5. ST.		6. ZIP CODE							
<div style="border: 1px solid black; padding: 2px;"> <div style="display: flex; justify-content: space-between;"> C F </div> <div style="display: flex; justify-content: space-between;"> 15 16 </div> </div>										<div style="border: 1px solid black; padding: 2px;"> <div style="display: flex; justify-content: space-between;"> C G </div> <div style="display: flex; justify-content: space-between;"> 15 16 </div> </div>					<div style="border: 1px solid black; padding: 2px;"> <div style="display: flex; justify-content: space-between;"> 40 41 42 </div> </div>		<div style="border: 1px solid black; padding: 2px;"> <div style="display: flex; justify-content: space-between;"> 47 48 49 </div> </div>							

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)	B. SIGNATURE	C. DATE SIGNED
Donald F. Domnick - Vice-President		11/17/80

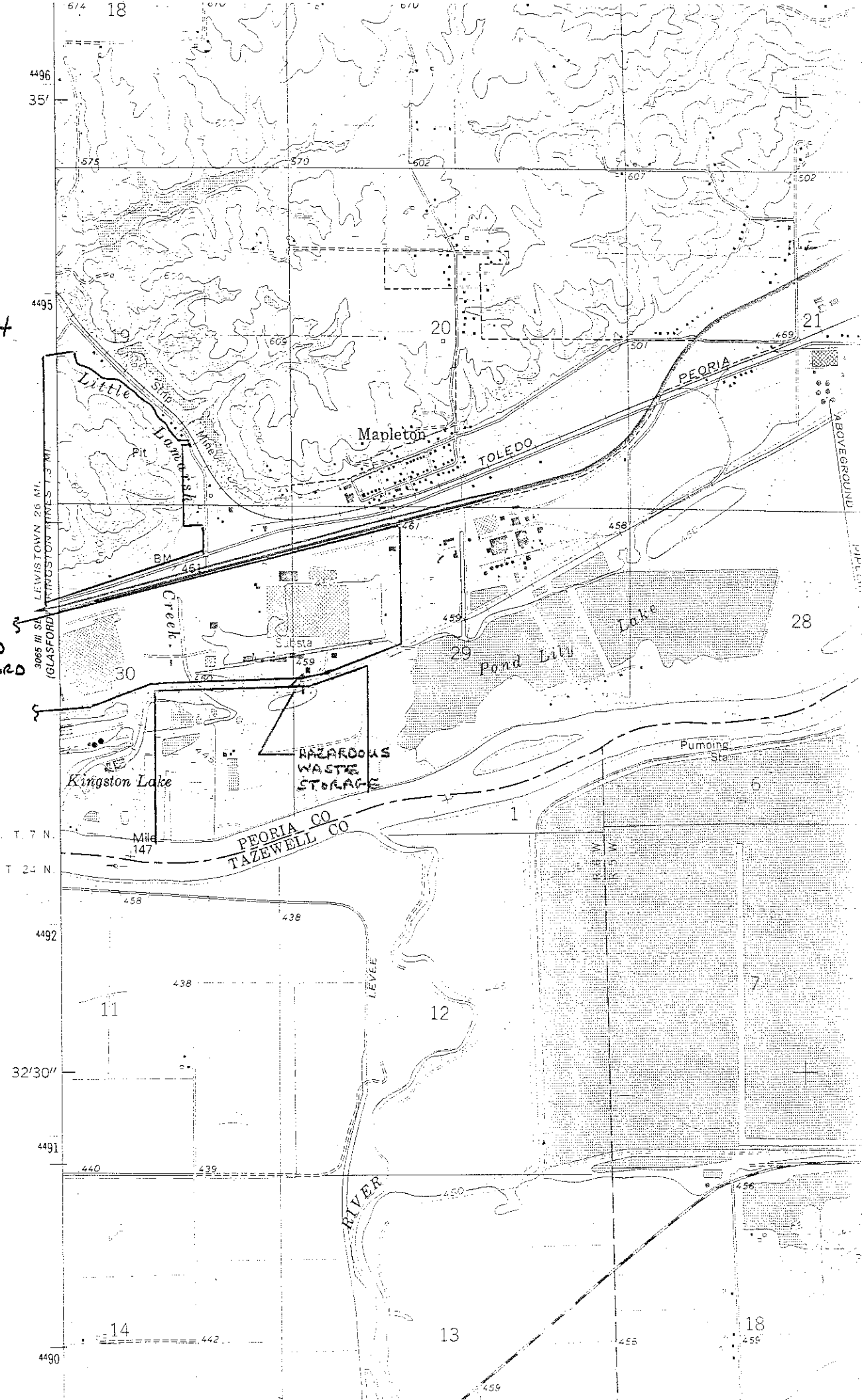
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

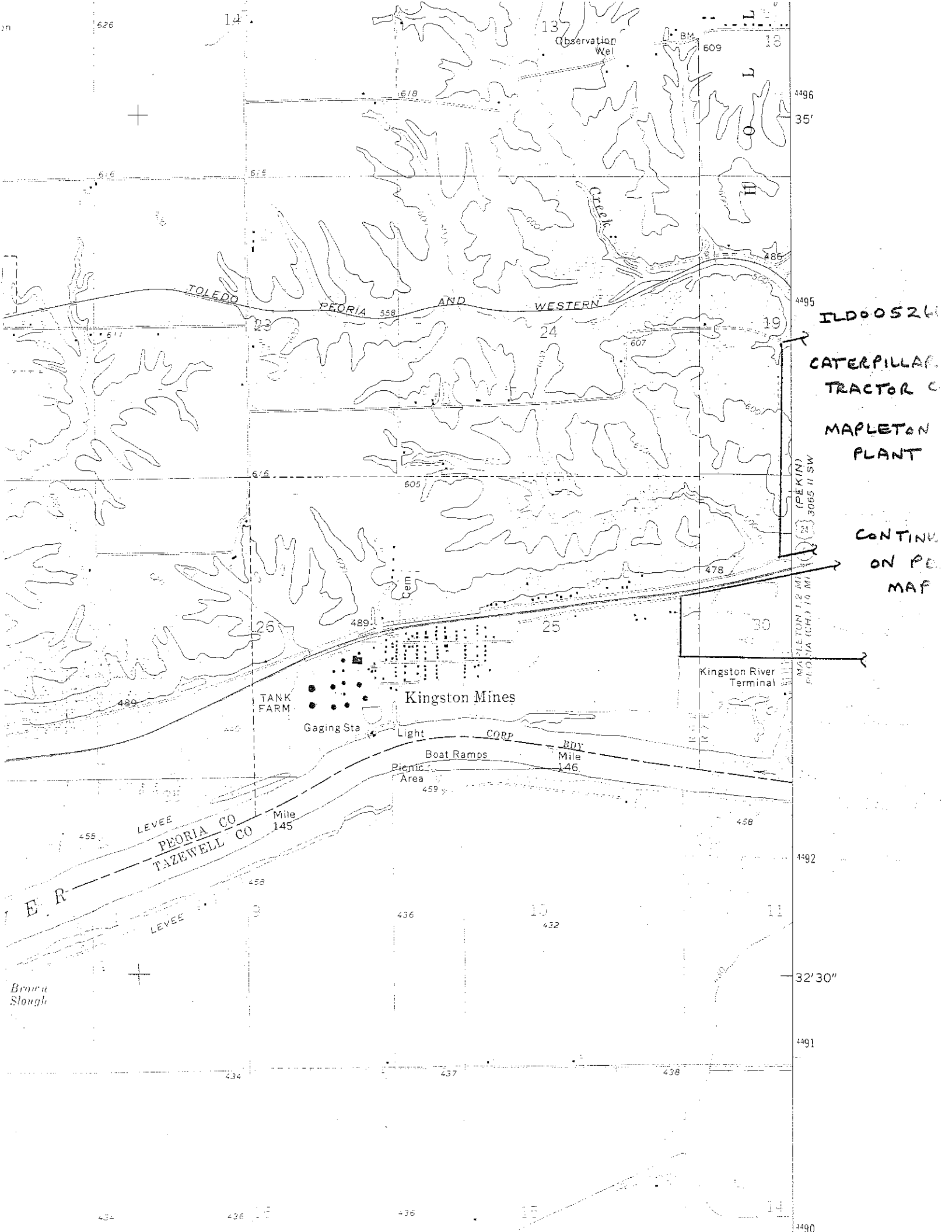
A. NAME (print or type)	B. SIGNATURE	C. DATE SIGNED
Donald F. Domnick - Vice-President		

163

CATERPILLAR
TRACTOR CO.
MAPLETON
PLANT

CONTINUED
ON GLASFORD
MAP





ILD00526

CATERPILLAR
TRACTOR C

MAPLETON
PLANT

CONTINU
ON PE
MAP

MAPLETON 1.2 MI
PEORIA (CH.) 1.6 MI

Kingston River
Terminal

Kingston Mines

TANK
FARM

Gaging Sta

Light

Boat Ramps

Picnic
Area

LEVEE
PEORIA CO
TAZEWELL CO

Mile
145

LEVEE

Brown
Slough



CATERPILLAR TRACTOR CO.

Mapleton, Illinois 61547

November 14, 1980

E.P.A. Region V
R.C.R.A. Activities
P. O. Box 7861
Chicago, Illinois 60680

Dear Sirs:

Attached is our Part A Application for a hazardous waste permit for the Mapleton Plant.

The E.P.A. Identification Number is ILD0052664364.

Very truly yours,

A handwritten signature in cursive script, appearing to read 'D. Domnick'.

Donald F. Domnick
Vice-President

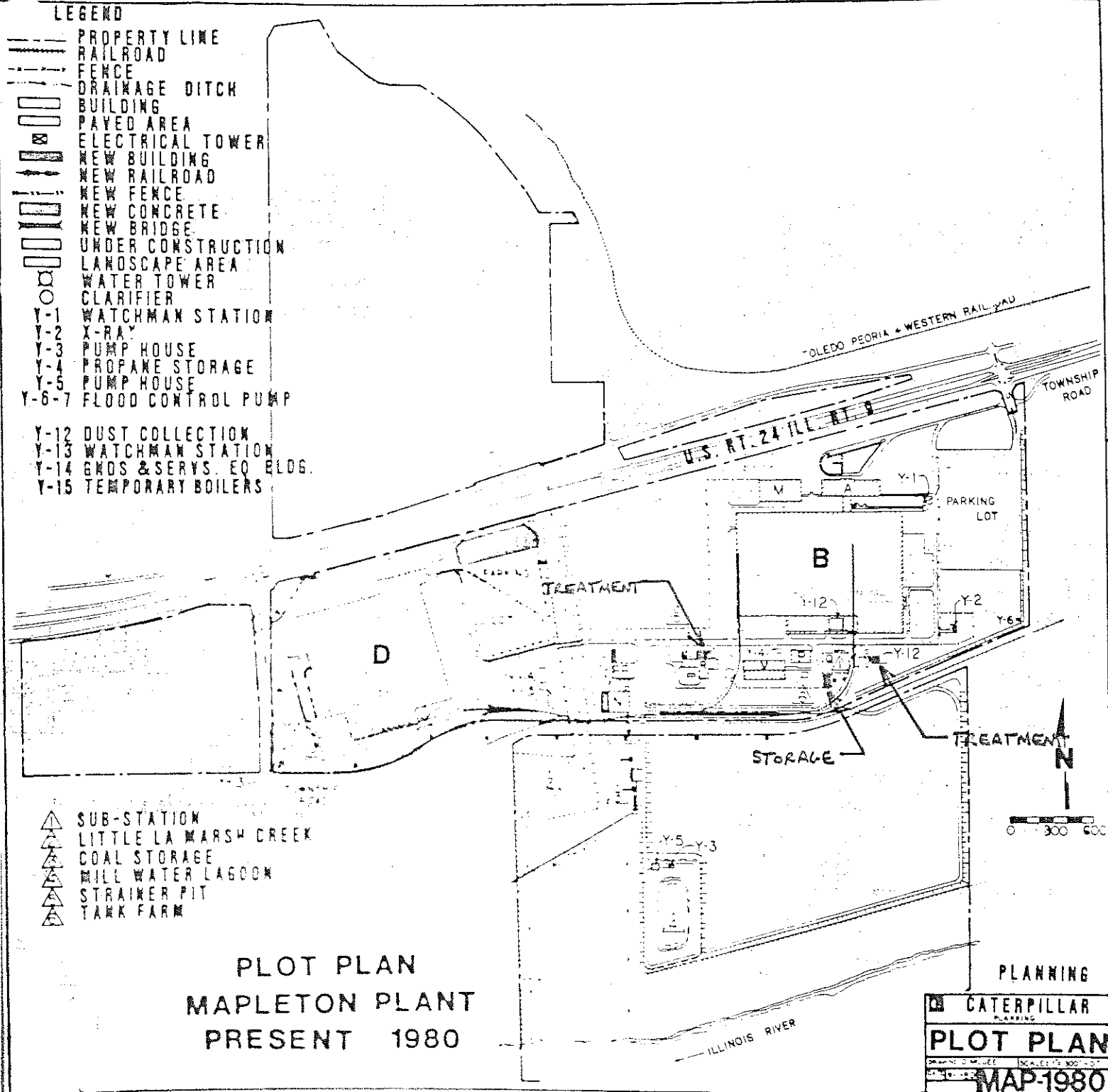
Telephone: (309) 675-5861
bkn

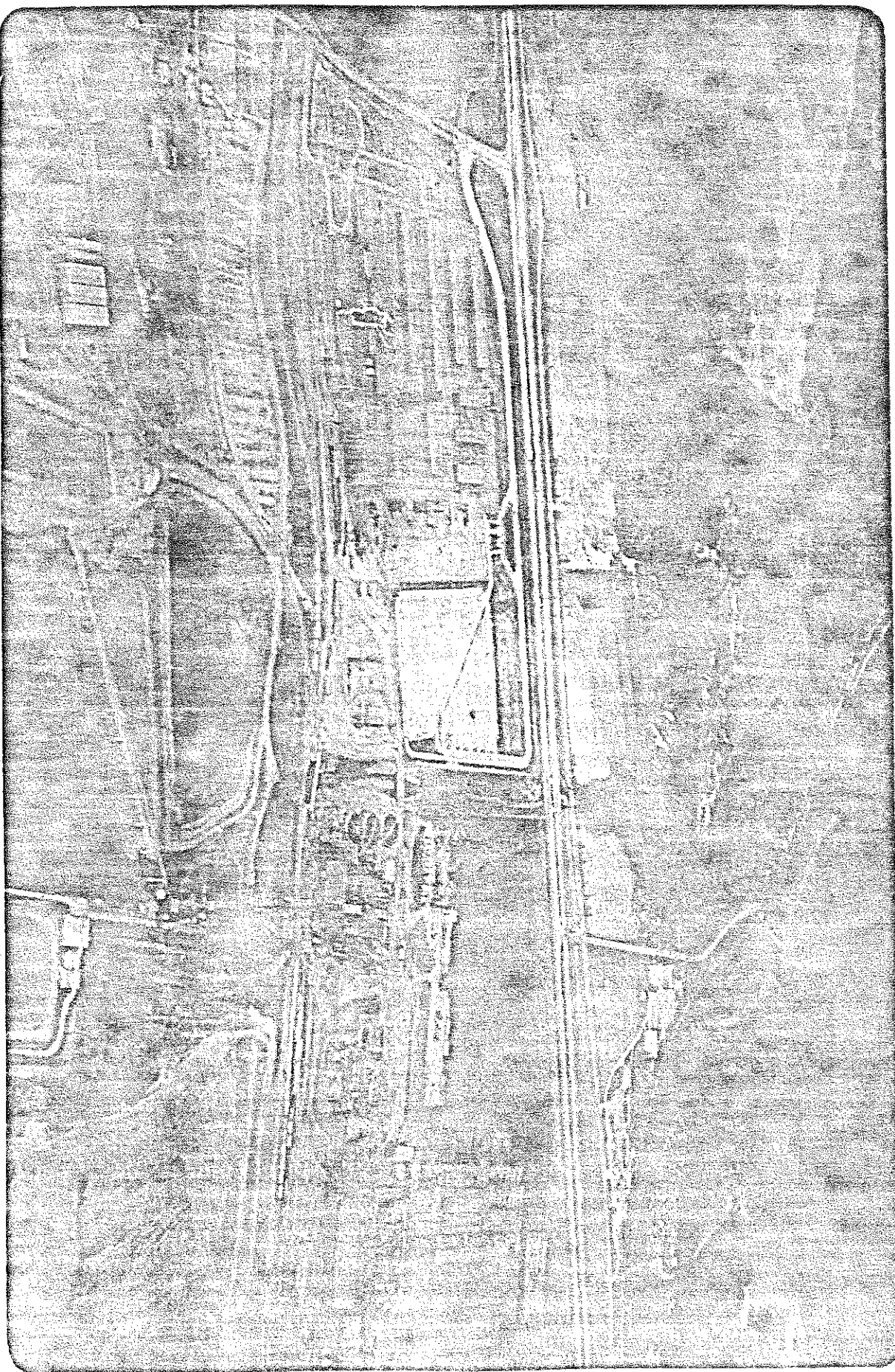
Attachment

V. FACILITY DRAWING (see page 4)

LEGEND

- PROPERTY LINE
- RAILROAD
- FENCE
- DRAINAGE DITCH
- BUILDING
- PAVED AREA
- ⊞ ELECTRICAL TOWER
- ⊞ NEW BUILDING
- ⊞ NEW RAILROAD
- ⊞ NEW FENCE
- ⊞ NEW CONCRETE
- ⊞ NEW BRIDGE
- ⊞ UNDER CONSTRUCTION
- LANDSCAPE AREA
- WATER TOWER
- CLARIFIER
- Y-1 WATCHMAN STATION
- Y-2 X-RAY
- Y-3 PUMP HOUSE
- Y-4 PROPANE STORAGE
- Y-5 PUMP HOUSE
- Y-6-7 FLOOD CONTROL PUMP
- Y-12 DUST COLLECTION
- Y-13 WATCHMAN STATION
- Y-14 GNOS & SERV. EQ BLDG.
- Y-15 TEMPORARY BOILERS





CATERPILLAR ENGINE PLANT

EPA Form 3510-3 (6-80) PAGE 1 OF 5 CONTINUE ON REVERSE

VERSE
163

III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

Line 3) Waste dust from a dust collection system is mixed with water and formed into pellets to improve the handling quality of the dust.

IV. DESCRIPTION OF HAZARDOUS WASTES

A. EPA HAZARDOUS WASTE NUMBER — Enter the four-digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. ESTIMATED ANNUAL QUANTITY — For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE — For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE **CODE**
POUNDS..... P
TONS..... T

METRIC UNIT OF MEASURE **CODE**
KILOGRAMS..... K
METRIC TONS..... M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES**1. PROCESS CODES:**

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES	
				1. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K 0 5 4	900	P	T 0 3 D 8 0	
X-2	D 0 0 2	400	P	T 0 3 D 8 0	
X-3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2				included with above

EPA I.D. NUMBER (enter from page 1)													FOR OFFICIAL USE ONLY														
1110052664364													S W DUP T/A C 2 DUP														
DESCRIPTION OF HAZARDOUS WASTES (continued)																											
LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES																				
							1. PROCESS CODES (enter) 2. PROCESS DESCRIPTION (if a code is not entered in D(1))																				
1	D	0	0	2	10759	P	S	0	1	S	0	2	T	0	1												
2	D	0	0	2	66211	P	S	0	1																		
3	D	0	0	2	55176	P	S	0	1	S	0	2	T	0	1												
4	D	0	0	2	36784	P	S	0	1																		
5	D	0	0	6																							
6	U	1	2	2	5977	P	S	0	1																		
7	D	0	0	1	172149	P	S	0	1																		
8	U	2	2	6		P	S	0	1																		
9	D	0	0	1	321860	P	S	0	1																		
10	F	0	1	7	1075932	P	S	0	1	S	0	2															
11	D	0	0	6	480000	P	S	0	2				T	0	4												
12	D	0	0	8																							
13	D	0	0	1	400	P	S	0	1																		
14	D	2	2	8	5	P	S	0	1																		
15	U	2	2	6	30000	P	S	0	1																		
16	U	2	2	6	12000	P	S	0	1																		
17	U	1	2	2	2000	P	S	0	1																		
18	U	1	5	4																							
19	D	0	0	1	1000	P	S	0	1																		
20	U	1	8	8	12000	P	S	0	1																		
21	D	0	0	1																							
22	U	1	2	2																							
23	U	0	0	9	24000	P	S	0	1																		
24	U	1	3	3	1000	P	S	0	1																		
25	D	0	0	2	2000	P	S	0	1																		
26	D	0	1	3	5	P	S	0	1																		

IV. DESCRIPTION OF HAZARDOUS WASTE (continued)

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 3.

NA

1LD052664364

EPA I.D. NO. (enter from page 1)

S	F	I	L	D	0	0	5	2	6	6	4	3	6	4	6
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility (see instructions for more detail). NA

VI. PHOTOGRAPHS

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail). NA

VII. FACILITY GEOGRAPHIC LOCATION

LATITUDE (degrees, minutes, & seconds)

40 33 035

LONGITUDE (degrees, minutes, & seconds)

089 45 008

VIII. FACILITY OWNER

☒ A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER

2. PHONE NO. (area code & no.)

19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
----	----	----	----	----	----	----	----	----	----	---	---	---	---	---	---	---	---	---	---

3. STREET OR P.O. BOX

4. CITY OR TOWN

5. ST.

6. ZIP CODE

19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
----	----	----	----	----	----	----	----	----	----	---	---	---	---	---	---	---	---	---	---

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)

B. SIGNATURE

C. DATE SIGNED

Donald F. Domnick - Vice-President



11/17/80

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)

B. SIGNATURE

C. DATE SIGNED

Donald F. Domnick - Vice-President



















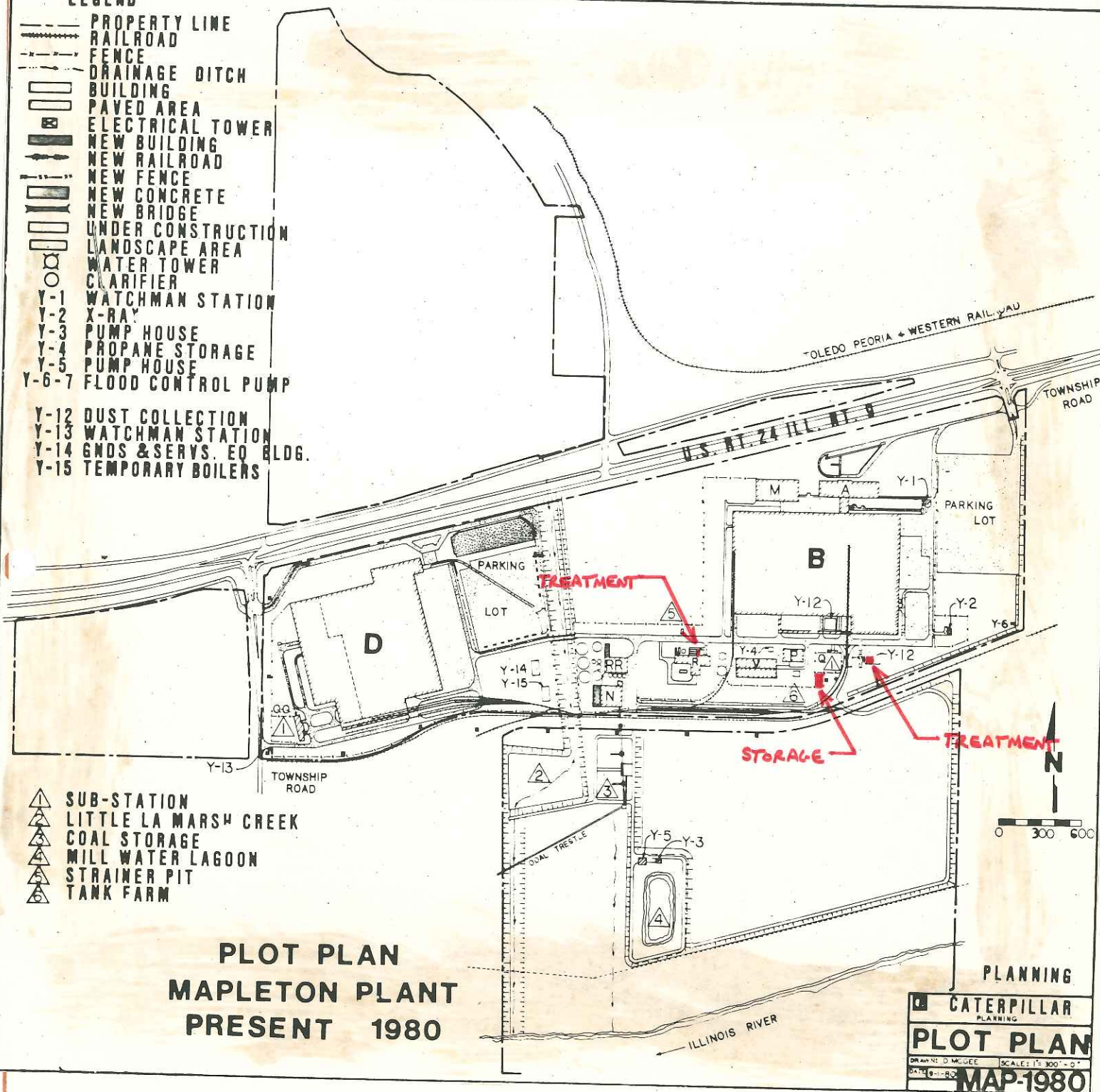
NOTE: Photocopy this page before completing if you more than 26 wastes to list.

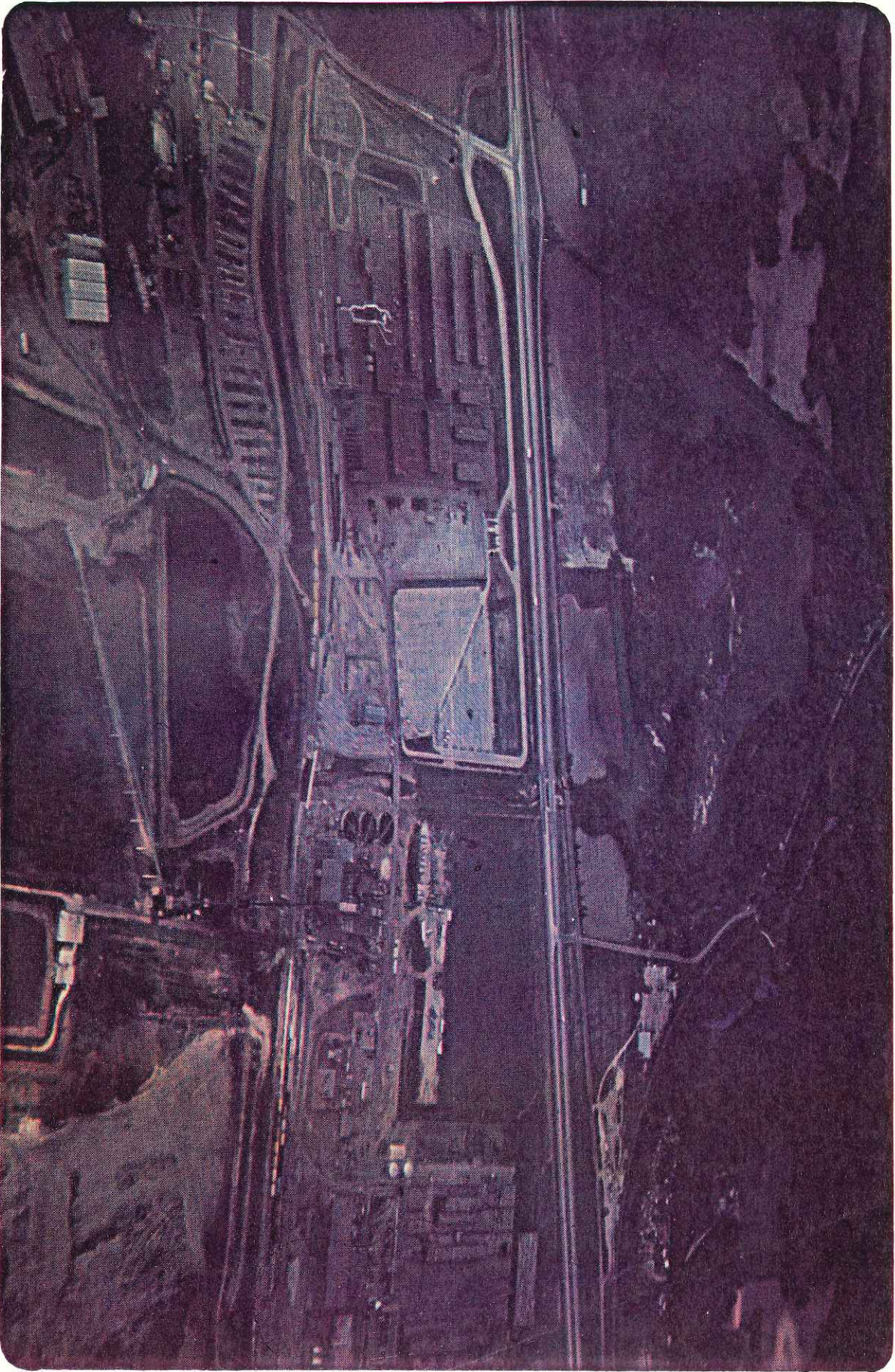
Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)													FOR OFFICIAL USE ONLY															
S 1 L D 0 5 2 6 6 4 3 6 4 1													S 1 2 1 3 14 15 23 24 25 26															
W 1 L D 0 0 5 2 6 6 4 3 6 4 1													W 1 2 1 3 14 15 23 24 25 26															
DESCRIPTION OF HAZARDOUS WASTES (continued)																												
WASTE NO.	A. EPA HAZARD. WASTE NO. (enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES																					
	23	24	25	26			1. PROCESS CODES (enter)																					
	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
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2	D	0	0	2	1000	P	S	0	1																			
3	D	0	0	1	500	P	S	0	1																			
4	D	0	0	1	12000	P	S	0	1																			
5	U	1	8	8	6000	P	S	0	1																			
6	U	1	8	8	800	P	S	0	1																			
7	D	0	0	2	2000	P	S	0	1																			
8	P	0	9	0	10	P	S	0	1																			
9	D	0	1	7	5	P	S	0	1																			
10	U	1	8	8	800	P	S	0	1																			
11	D	0	0	1	12000	P	S	0	1																			
12	D	0	0	1	6000	P	S	0	1																			
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LEGEND

- | | |
|--|------------------------|
|  | PROPERTY LINE |
|  | RAILROAD |
|  | FENCE |
|  | DRAINAGE DITCH |
|  | BUILDING |
|  | PAVED AREA |
|  | ELECTRICAL TOWER |
|  | NEW BUILDING |
|  | NEW RAILROAD |
|  | NEW FENCE |
|  | NEW CONCRETE |
|  | NEW BRIDGE |
|  | UNDER CONSTRUCTION |
|  | LANDSCAPE AREA |
|  | WATER TOWER |
|  | CLARIFIER |
| Y-1 | WATCHMAN STATION |
| Y-2 | X-RAY |
| Y-3 | PUMP HOUSE |
| Y-4 | PROPANE STORAGE |
| Y-5 | PUMP HOUSE |
| Y-6-7 | FLOOD CONTROL PUMP |
| Y-12 | DUST COLLECTION |
| Y-13 | WATCHMAN STATION |
| Y-14 | GNDS & SERVS. EQ BLDG. |
| Y-15 | TEMPORARY BOILERS |





CATERPILLAR & TETON PLANT

Financial Record Review by
Andrew Vollmer
September 26, 1995

1438050004-Peoria co.
Caterpillar Inc.
ILD 052664364
Financial file

ON this date a record review was completed and the following apparent violations were observed.

The Letter from the Chief Financial Officer is incomplete for the year ending 12/31/93.

1. Spaces 4,5,6,7, have not been completed in paragraphs 3 & 4 before using an Attachment sheet.
2. The paragraph below paragraph 5, has not been completed.
3. Line 4 of alternative II has not been completed
4. The total on Attachment A are incorrect.

The closure cost for this facility lists closure at \$718,550 and total cost \$732,921, this doesn't add up.

They failed to submit the Annual Report and the Auditors Report.

The Letter from the Chief Financial Officer for the year ending 12/31/94 has the following apparent violations.

1. The Letter form the Chief Financial Officer is a photocopy and therefore not acceptable. Part 724.251 "States that the Agency shall promulgate standardized forms based on 40 CFR 264.151 with such changes in wording as are necessary under Illinois law. Any owner or operator required to establish financial assurance under this Subpart shall do so only upon the standardized forms promulgated by the Agency. The Agency shall reject any financial assurance document which is not submitted on such standardized forms".
2. Spaces 4,5,6,7, have not been completed in paragraph 1 & 3, the Letter from the Chief Financial Officer must be completed before using an attachment sheet.
3. The paragraph below paragraph 5 has not been completed. the numbered spaces are 12,13, and 14.
4. They failed to submit the Annual Report and the Auditor Report.

The closure cost is \$747,579.42 which is 1.02 percent over the cost of \$732,921 listed in the total column in the 1994 submittal, these costs need to be corrected on the 1994 submittal.

A C I L is being sent.

MM



Illinois Environmental Protection Agency • P. O. Box 19276, Springfield, IL 62794-9276

217/782-6761

Refer to: 1438050004 - Peoria County Caterpillar, Inc. - Mapleton Plt. ILD052664364	1790200019 - Tazewell County Caterpillar, Inc. - E. Peoria Plt. ILD052664604
1438100001 - Peoria County Caterpillar Tractor ILD005244777	1438100002 - Peoria County Caterpillar, Inc. Mossville Tech. Ctr. ILD067407627

Compliance File

April 26, 1989

Caterpillar, Inc.
ATTN: D. Brenden, Attorney
100 Northeast Adams Street
Peoria, Illinois 61629-7310

Dear Mr. Brenden:

This is to inform you that your financial assurance instruments for the years 1985, 1986, 1987 and 1988 are in order.

Also, as a reminder, your updated instrument(s) for the year ending December 31, 1989, will be due by March 31, 1990.

If you have any questions or if we can be of assistance, please do not hesitate to contact Andrew A. Vollmer at 217/782-6762.

Sincerely,

Angela Aye Tin

Angela Aye Tin, Manager
Technical Compliance Unit
Compliance Section
Division of Land Pollution Control

AAT:AV:JPR:jas/1546k,52

cc: Division File
Peoria Region
John Richardson
Andy Vollmer
USEPA - Mary Murphy

**D. Corrective
Action**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5

MEMORANDUM

DATE:
SUBJECT: Determination of Need for an Investigation
Facility Name: Caterpillar Inc.
EPA ID #: 11D052-664364
FROM: Kathleen Miller
Kathleen Miller, Environmental Protection Specialist

TO: George Hamper, Chief, Corrective Action Section 2

I recommend the following determination regarding the need for an investigation:

☒ **CA070NO** Determination of Need for an Investigation-Investigation is not Necessary

Reason for Determination

- ☐ Preliminary Assessment/Visual Site Inspection (PA/VSI) did not recommend any further investigation
- ☐ PA/VSI recommendations do not warrant RRB attention
- ☐ Phase 1 Environmental Site Assessment (ESA) did not recommend further investigation
- ☐ Phase 2 ESA did not recommend further investigation
- ☐ Phase 1/Phase 2 ESA recommendations do not warrant RRB attention
- ☐ Company representative asserts that the site is clean
- ☐ Not subject to corrective action
- ☒ Enrolled in other clean-up program - PCB Program - w/ U.S. EPA since 2001
- ☐ PA/VSI recommendations have been implemented
- ☐ Removal
- ☐ Participating in Voluntary Remediation Program
- ☐ Completed Voluntary Remediation Program
- ☐ Superfund
- ☐ Superfund No Further Action Decision
- ☐ Superfund Base Relocation and Closure
- ☐ Other

☐ **CA070YE** Determination of Need for an Investigation - Investigation is Necessary

Reason for Determination

- ☐ PA/VSI recommends further investigation
- ☐ ESA recommends further investigation
- ☐ Other

☐ **No determination can be made - More Information Needed**

☒ Approved

☐ Not Approved

Signed: George Hamper Date: 9/24/10

MEMO

To: File

From: Kathleen Miller

Date: 8/11/10

RE: Caterpillar Inc. Mapleton Plant (EPA ID# ILD 052 664 364)

Summary of Phone Conversations:

I attempted to contact Andrew Jarrick on Wednesday, August 4, 2010, the contact person in RCRA Info. The phone number is a working number and I left a message. On Monday, August 9th Mr. Jarrick returned my call and left a message. I have tried several times to catch him "live" since 8/9 and have not been able to reach him. I left a message on 8/11 and will wait to hear back from him. On Friday, August 13th, I was able to reach Mr. Jarrick. He stated that he followed the State's requirements for RCRA closure in 1996. He asked that I send him an email with my request for updated records on the facility. On Tuesday, August 17th, I sent him an email with my request.

On September 2nd, I followed up with Mr. Jarrick by calling him again. On September 3rd, he provided me with the IEPA RCRA Closure Approval letter for the 9/6/96 RCRA closure of four HWCSAs (SWMU 2,3,5,8). In Mr. Jarrick's email he pointed out that remediation efforts are being made in regards to item "c" of the letter, and his facility is working with Jean Greensley, U.S. EPA.

On September 13th, I spoke with Ms. Greensley in our office and was informed that the "Outside Storage Area South of Building Q Yard" of the site (which is the area of concern indicated in item "c" of the letter) has been enrolled in U.S. EPA's PCB Program since 2001. (See attached email from Ms. Greensley).

I was informed by George Hamper, that if a company representative tells me that the site is working with U.S. EPA on remediation activities (and in this case, **Caterpillar Inc., is enrolled in U.S. EPA's PCB Program**) this is a reason to determine a CA070NO- no further investigation is necessary.

Updated contact info for this facility:

Caterpillar Inc. Mapleton Plant
8826 W. Rte 24
Mapleton, IL 61547

Andrew Jarrick, President
309-633-8482
jarrick_andrew_e@cat.com

Jean Greensley, Geologist
U.S. EPA
312-353-1171
Greensley.jean@epa.gov

Re: U.S. EPA request for updated info re (EPA ID# ILD 052 664 364)

Andrew E. Jarrick

to:

KathleenA Miller

09/03/2010 11:00 AM

Cc:

"Judy C. Gagnon", "Jaron J. Bromm"

Show Details

Ms. Miller,

As discussed in our conversation yesterday, September 2, attached is the IEPA RCRA Closure Approval Letter for the RCRA Closure dated September 6, 1996 for the Caterpillar Inc. - Mapleton Facility. Additionally, I have included the contact information for Jean Greensley of the USEPA Region V for any additional information needed on the remediation effort mentioned in item c of the attached letter. Please let me know if your office has any additional questions or requires any additional information in their effort to update their files.

Jean M Greensley

Geologist

U.S. Environmental Protection Agency

Remediation and Reuse Branch Region 5 LU-9J

77 West Jackson Boulevard

Chicago, IL 60604-3590

(312) 353-1171

greensley.jean@epa.gov

Thank you,

Andrew

Andrew E. Jarrick

Environmental Affairs

Caterpillar Inc. - Cast Metals Organization

8826 W. Rt. 24

Mapleton, IL 61547

Tel: (309) 494-2745

Fax: (309) 992-7626

Jarrick_Andrew_E@cat.com

Miller.KathleenA@epamail.epa.gov

To Jarrick_Andrew_E@cat.com

cc

08/17/2010 01:20 PM

Subject U.S. EPA request for updated info re (EPA ID# ILD 052 664 364)

Caterpillar: Confidential Green Retain Until: 08/19/2011

To Mr. Jarrick:

Per our telephone conversation on Friday, August 13, 2010, you asked that I send you an email regarding our request for updated information on your facility. As I mentioned over the phone, we would like any updated records regarding remediation activities for your site since the Preliminary Assessment/Visual Site Inspection was prepared in June of 1993. As I recall, you stated that your facility, has been working with the IEPA on other issues not related to the 1996 RCRA closure and possibly working towards a No Further Remediation (NFR) letter? If this is in fact the case, please provide us with this documentation. We do not need to get involved if you are participating in a voluntary remediation program with the state.

If you would like to send documents via regular mail service, please send them to my attention at the address:

U.S. EPA Region 5
Land and Chemical Division
Attn: Kathleen Miller
77 West Jackson Blvd. LU-9J
Chicago, IL 60604

OR

* Fax me the information:
312-697-2640 (Please include Attn: Kathleen Miller)

OR

* Email me at: Miller.KathleenA@epa.gov

I look forward to receiving any updated documentation regarding this matter. If you have any questions, please do not hesitate to contact me.

Kathleen Miller
Environmental Protection Specialist
RCRA Corrective Action
U.S. EPA Region 5
Tel: 312-886-6761
Fax: 312-
Miller.KathleenA@epa.gov



State of Illinois

ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director

2200 Churchill Road, Springfield, IL 62794-9226

217-521-3300

September 6, 1996

CERTIFIED MAIL
Z 363 621 022

Caterpillar, Inc.
Attn: Carey French
8826 West Route 24
Mapleton, Illinois 61547-9799

Re: 1438050004-- Peoria County
Caterpillar, Inc.
ILD052664364
RCRA-Closure
Closure Log No. C-661
Received: July 31, 1996

Dear Ms. French:

This is in response to the certification of closure submitted by Caterpillar, Inc. for the four hazardous waste containers (S01) storage areas referred to as the "Building B Storage Area", "Building Y-16 Storage Area", "Building V Storage Area" and the "Outside Storage Area South of Building Q Yard" at the above-referenced facility. This certification, signed by a representative of the owner/operator, R.L. Claussen and an independent registered professional engineer, Steven D. Schroeder, P.E. indicated that the subject hazardous waste management units have been closed in accordance with the plan approved by the Agency.

The subject hazardous waste management units were inspected by a representative of this Agency on August 15, 1996. The inspection revealed that the units were closed in accordance with the approved closure plan. In addition, a review of the closure certification and accompanying closure documentation report also indicates that the units were closed in accordance with the approved closure plan. Therefore, the Agency has determined that closure of the four (4) hazardous waste container storage areas at the above referenced facility has apparently met the requirements of 35 IAC 725.

As a result of completing closure of the subject hazardous waste management units:

- a. The Agency has withdrawn your Part A application.
- b. This facility must continue to meet the requirements of 35 IAC 722 Standards Applicable to Generators of Hazardous Waste and 35 IAC 728 Land Disposal Restrictions.

SMW 2,3,5,8

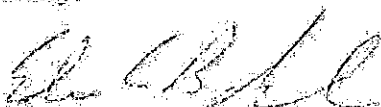
Page 2

3. The "Outside Storage Area South of Building Q Yard" detected PCBs during remedial efforts at this unit. As such, the PCB contamination associated with this unit should be investigated and remediated, if necessary, under a program other than RCRA.

4. Caterpillar should adjust its closure cost estimates and financial assurance documents to reflect completion of these activities. These adjustments should be made through the Planning and Report Section of this Bureau.

Should you have any questions regarding this matter, please contact William T. Sinnott, II at 217/524-3310.

Sincerely,



Edwin C. Bakowski, P.E.
Manager, Permit Section
Bureau of Land

ECB:WTS:bjh961412.WPD

JSK

cc: USEPA Region V, Kelley Moore
USEPA Region V, Hak Cho
Steven D. Schroeder, P.E.



Re: Fw: U.S. EPA request for updated info re Caterpillar Inc . (EPA ID# ILD
052 664 364) 

Jean Greensley to: KathleenA Miller

09/13/2010 12:15 PM

Kathleen -- There are three areas of the Caterpillar site in Mapleton, Illinois have PCB contamination. The first is a 14 acre "Swale area", a 25 acre parcel identified as the last west of Building B (LWBB) and a drum storage area. The site has been under review by the PCB Program since 2001. In early 2010, EPA provided information regarding the regulatory options for site remediation in the LWBB and asked for a workplan for the remediation of PCB contamination in the swale and a former drum storage area. The Caterpillar contractor submitted an RI/FS in June 2010. The EPA had a phone conversation with the Caterpillar contractor in June 2010 regarding the RI/FS. EPA asked for additional information which we have not received. Let me know if you need anything else. Jean

Determination: Sampling**PA/VSİ Or RFA FILE REVIEW CHECKLIST**

Facility Name: Caterpillar Inc. (Mapleton Plant)

EPA ID: ILD 052 664 364

Address: 8826 W Rte 24 Mapleton, Peoria Co., IL

Name of Reviewer: Maureen McHugh

Date of Review: 9/24/08

1	<input checked="" type="checkbox"/> Yes	No	Is this a one folder site?
2	<input checked="" type="checkbox"/> Yes	No	Are there Superfund files for this site?
3	<input checked="" type="checkbox"/> Yes	No	Did you Read the Executive Summary?
			There are: <u>13</u> SWMUs and <u>4</u> AOCs at this site.
4	<input checked="" type="checkbox"/> Yes	No	Did you review the regulatory history?
5	<input checked="" type="checkbox"/> Yes	No	Does the facility have interim status or a permit?
			This facility is a: <input checked="" type="checkbox"/> SQG, <input type="checkbox"/> LQG, or <input type="checkbox"/> Less than 90 day.
6	<input checked="" type="checkbox"/> Yes	No	Was the Facility closed per RCRA? RCRAInfo 380 (1996)
			If Yes, was the closure: <input checked="" type="checkbox"/> CC, or <input type="checkbox"/> CIP.
7	<input checked="" type="checkbox"/> Yes	No	Are there documented (historical) releases? Briefly describe on Page 2.
8	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Were there releases identified during the inspection? Briefly describe on Page 2.
9	<input checked="" type="checkbox"/> Yes	No	Do you agree with the Conclusions and Recommendations?
			If No, briefly describe on Page 2.

As a result of your review of the PA/VSİ or RFA file, please classify this site as:

☐ No further corrective action recommended or warranted: These are sites that closed the regulated units and any other SWMUs or AOCs at the site did not warrant any further corrective action (no historic releases or evidence of releases observed during the Visual Site Inspection).

☒ Further Action Required: Soil or sediment sampling or groundwater sampling or monitoring or any type of investigation that was recommended in the report in response to a documented or observed release at any SWMU or AOC and where such investigation, whether being addressed during the inspection or after, does not have the necessary documentation in the facility record files.

☐ More Information Needed: There is no RFA, PA/VSİ or RCRA closure information available.

PA/VSİ Or RFA FILE REVIEW CHECKLIST

Notes

Briefly describe any documented (historical) releases for any SWMU or AOC recorded in the report. For each release, please identify the SWMU or AOC and a one or two line description of release.

- Phenolic wastewater was released to uncovered soils around the Phenolic Wastewater Storage Tank (SWMU10) prior to the early 1980s.
- In 1982, there was a gasoline pipeline leak at the AST Split-Pipeline Leak Area (AOC1). Sampling and disposal of soil was scheduled for the near future (in 1992).
- In 1983, there was a release of caustic cleaning solution and the material was collected for proper disposal.
- In 1984, a fire in a capacitor vault caused the release of about 100gal of PCB-contaminated water onto the ground. IEPA approved the extensive cleanup.
- In 1990, there was a sulfuric acid leak from an acid feed line for the wastewater treatment plant. The contaminated soil was removed but there was no documentation of post-remediation sampling (AOC2).
- In 1991, the soil was contaminated by a spill at the Diesel Fuel Saddle Tank Spill Area (AOC4). Some contaminated soil was removed but there was no documentation of post-remediation sampling.
- In 1992, a gasoline release was detected in the Abandoned Aboveground Storage Tank Leak Area (AOC3). The facility planned on testing and remediating the area as required.

Briefly describe any releases observed during the inspection for any SWMU or AOC recorded in the report. For each release, please identify the SWMU or AOC and a one or two line description of release.

PA/VSİ Recommendations

Soil sampling at the Waste Sand Landfill Area (SWMU1), the Phenolic Wastewater Storage Tank (SWMU10), the AST Split-Pipeline Leak Area (AOC1), the Sulfuric Acid Leak Area (AOC2), the AST Leak Area (AOC3), and the Diesel Fuel Truck Saddle Tank Spill Area (AOC4).

Complete RCRA closure as planned for SWMU2,3,5,8. RCRA closure was completed in 1996.

Perform a waste analysis of the waste dust at the Facility Baghouse Dust Collectors (SWMU6) to determine if it is hazardous and if so, sampling may be necessary.

PRC Environmental Management, Inc.
233 North Michigan Avenue
Suite 1621
Chicago, IL 60601
312-856-8700
Fax 312-938-0118



**PRELIMINARY ASSESSMENT/
VISUAL SITE INSPECTION**

**CATERPILLAR INC.
MAPLETON, ILLINOIS
ILD 052 664 364**

FINAL REPORT

Prepared for

**U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Waste Programs Enforcement
Washington, DC 20460**

Work Assignment No.	:	C05087
EPA Region	:	5
Site No.	:	ILD 052 664 364
Date Prepared	:	June 10, 1993
Contract No.	:	68-W9-0006
PRC No.	:	009-C05087-IL2N
Prepared by	:	Resource Applications, Inc. (Arthur Marshalla) (Scott R. Tajak)
Contractor Project Manager	:	Shin Ahn
Telephone No.	:	(312) 856-8700
EPA Work Assignment Manager	:	Kevin Pierard
Telephone No.	:	(312) 886-4448

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
EXECUTIVE SUMMARY	ES-1
1.0 INTRODUCTION	1
2.0 FACILITY DESCRIPTION	4
2.1 FACILITY LOCATION	4
2.2 FACILITY OPERATIONS	4
2.3 WASTE GENERATING PROCESSES	10
2.4 HISTORY OF DOCUMENTED RELEASES	17
2.5 REGULATORY HISTORY	19
2.6 ENVIRONMENTAL SETTING	21
2.6.1 Climate	21
2.6.2 Flood Plain and Surface Water	22
2.6.3 Geology and Soils	23
2.6.4 Ground Water	23
2.7 RECEPTORS	24
3.0 SOLID WASTE MANAGEMENT UNITS	25
4.0 AREAS OF CONCERN	38
5.0 CONCLUSIONS AND RECOMMENDATIONS	40
REFERENCES	51

Attachment

- A EPA PRELIMINARY ASSESSMENT FORM 2070-12
- B VISUAL SITE INSPECTION SUMMARY AND PHOTOGRAPHS
- C VISUAL SITE INSPECTION FIELD NOTES

LIST OF TABLES

<u>Table</u>		<u>Page</u>
1	SOLID WASTE MANAGEMENT UNITS	8
2	SOLID WASTES	12
3	SWMU AND AOC SUMMARY	41

LIST OF FIGURES

<u>Figure</u>		<u>Page</u>
1	FACILITY LOCATION	5
2	FACILITY LAYOUT	6
3	ENLARGED FACILITY LAYOUT/SWMU AND AOC LOCATIONS	7

EXECUTIVE SUMMARY

ENFORCEMENT
CONFIDENTIAL

Resource Applications, Inc. (RAI) performed a preliminary assessment and visual site inspection (PA/VSI) to identify and assess the existence and likelihood of releases from solid waste management units (SWMU) and other areas of concern (AOC) at the Caterpillar Inc. (Caterpillar) facility in Mapleton, Illinois. This summary highlights the results of the PA/VSI and the potential for releases of hazardous wastes or hazardous constituents from SWMUs and AOCs identified. In addition, a completed U.S. Environmental Protection Agency (EPA) Preliminary Assessment Form (EPA Form 2070-12) is included in Attachment A to assist in prioritization of RCRA facilities for corrective action.

The Caterpillar (formerly known as Caterpillar Tractor Company) facility is a grey iron foundry used for the manufacturing of engine and heavy equipment castings. The facility's Standard Industrial Code is 3321. The facility generates and manages the following waste streams. Some of the waste streams may be hazardous and nonhazardous and are so indicated. The waste codes listed are those assigned by the facility: waste refractory coating (D001, F002, U226, nonhazardous), waste resins (D001, D002, F002, U122, nonhazardous), waste core catalyst (D001, D002, nonhazardous), waste janitorial products (D002, nonhazardous), unused cooling tower chemicals (D001, D002, nonhazardous), waste off-specification chemical (U226), and nonhazardous waste triethylamine scrubber liquor, waste grease, waste oil, waste sand, dust waste, polychlorinated biphenyls (PCB), dewatered sludge, and nonhazardous phenolic wastewater. In the past, waste triethylamine scrubber liquor (D002) and waste grease (D008) were also generated. The facility has operated at its current location since 1967. The facility occupies 608 acres in an industrial area and employs about 800 people. The facility's regulatory status is that of a large-quantity generator and storage facility. Building B was started in 1967 and was occupied until 1986. Building D was started in 1978 and is presently in full operation. Before 1967 the area was unimproved open land.

The PA/VSI identified the following 13 SWMUs and four AOCs at the facility:

RELEASED
DATE 8/29/00
RIN # 1
INITIALS mv

ENFORCEMENT
CONFIDENTIAL

Solid Waste Management Units

1. Waste Sand Landfill Area
2. Former Hazardous Waste Drum Storage Area
3. Indoor Hazardous Waste Drum Storage Area
4. Waste Oil Sump Area
5. Hazardous Waste Drum Storage Area
6. Facility Baghouse Dust Collectors
7. Wastewater Treatment System
8. Former Hazardous Waste Drum Storage Marshalling Area
9. Waste Scrubber Liquor Tank
10. Phenolic Wastewater Storage Tank
11. Former PCB Storage Area
12. PCB Storage Area
13. Temporary PCB Storage Area

Areas of Concern

1. Aboveground Storage Tank Split-Pipeline Leak Area
2. Sulfuric Acid Leak Area
3. Abandoned Aboveground Storage Tank Leak Area
4. Diesel Fuel Truck Saddle Tank Spill Area

Past history of the SWMUs has revealed documented releases to the soil. The fact that Caterpillar's personnel are more aware of the regulations than they were 10 years ago is one reason why future spills or releases are unlikely. A PCB spill occurred in 1984, during a fire in Building B. The fire was put out with water which was pumped out of the building and onto the soil, thus contaminating the soil with PCBs. After cleanup, Caterpillar received a letter from IEPA approving the method of cleanup.

The potential for release to ground water from all SWMUs, except SWMU 1, is low. SWMU 1 has an unknown potential for release of hazardous constituents to ground water because hazardous constituent content in the waste disposed in this unit is unknown. AOC 3 has a moderate to high potential for release to ground water due to the gasoline release to the soil in the area. AOC 1 has a moderate potential for release to ground water. A gasoline release to soil occurred here; however, this release occurred in 1982. AOC 4 has a moderate potential for release to ground water due to the diesel fuel release to soil in this area. AOC 2 has a low potential for release to ground water.

RELEASED
DATE 6/29/82
RIN #
INITIALS WV

The potential for release to surface water from all SWMUs, except SWMU 1, is low. There is also a low potential for release to surface water at all AOCs. SWMU 1 has an unknown potential for release of hazardous constituents to surface water because the hazardous constituent content in the waste disposed in this unit is unknown.

The potential for release to on-site soils from all SWMUs, except SWMU 1, is low. However, overflow releases have occurred at SWMU 10. The unit has since been removed and no longer poses a threat to on-site soils. SWMU 1 has an unknown potential for release of hazardous constituents to on-site soils since hazardous constituent content in the waste disposed in this unit is not known. Releases of gasoline have occurred at AOC 1 and 3. No soil remediation has been conducted at either AOC. A release of sulfuric acid to on-site soil occurred at AOC 2. Thirty 55-gallon drums of contaminated soil were removed; however, no soil sampling was performed to verify that all contamination was removed. A release of diesel fuel to on-site soils occurred at AOC 4. Some soil was removed, but no documented soil sampling was available to RAI.

The potential for release to air from all SWMUs, except SWMU 1, and all AOCs is low. SWMU 1 has an unknown potential for release to air because hazardous constituent content in the waste disposed in this unit is unknown.

Caterpillar is located in an industrial area. A small residential area is located approximately 0.5 mile away. Water in the area is obtained from the Illinois River, located on the south property line of the facility. Other surface water bodies in the area include: 1) the Little Lamarsh Creek, which runs through the center of the Caterpillar property between Buildings B and D and drains into the Illinois River, and 2) the Pond Lily Lake located approximately 1 mile southeast of Caterpillar's Building B and on the north side of the Illinois River. Wetlands are abundant in the area. The entire Caterpillar site was originally wetlands and was altered for the current land use. There are no ground water wells on site. The nearest ground water wells are in the Village of Mapleton, approximately 0.5 mile north from Caterpillar. Facility access is controlled by fencing, security guards, and video-monitoring.

RAI recommends that RCRA closure be completed for SWMUs 2, 3, 5, and 8 per approved IEPA closure plans. Soil sampling should be conducted at SWMU 10 to determine if contamination

occurred as a result of overflows at the unit. Integrity tests of the tanks at AOCs 1 and 3 should be performed, and the soil around all AOCs should be sampled for contamination. RAI recommends soil sampling at SWMU 1 to determine if hazardous constituent contamination does exist. Furthermore, RAI recommends hazardous constituent analysis of the nonhazardous special wastes stored at SWMU 1. According to the facility representative, ground water monitoring at SWMU 1 has not identified any ground water contamination and the monitoring data is submitted quarterly to IEPA. RAI also recommends that a hazardous constituent waste analysis be performed on the waste dust stored in SWMU 6. If the waste is determined to be hazardous, sampling may be necessary for all environmental media. RAI recommends no further action for any of the other identified SWMUs.

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1.0 INTRODUCTION

PRC Environmental Management, Inc. (PRC) received Work Assignment No. C05087 from the U.S. Environmental Protection Agency (EPA) under Contract No. 68-W9-0006 (TES 9) to conduct preliminary assessments (PA) and visual site inspections (VSI) of hazardous waste treatment and storage facilities in Region 5. Resource Applications, Inc. (RAI), TES 9 team member, provided the necessary assistance to complete the PA/VSI activities for the Caterpillar Inc. (Caterpillar) facility in Mapleton, Illinois.

As part of the EPA Region 5 Environmental Priorities Initiative, the RCRA and CERCLA programs are working together to identify and address RCRA facilities that have a high priority for corrective action using applicable RCRA and CERCLA authorities. The PA/VSI is the first step in the process of prioritizing facilities for corrective action. Through the PA/VSI process, enough information is obtained to characterize a facility's actual or potential releases to the environment from solid waste management units (SWMU) and areas of concern (AOC).

A SWMU is defined as any discernible unit at a RCRA facility in which solid wastes have been placed and from which hazardous constituents might migrate, regardless of whether the unit was intended to manage solid or hazardous waste.

The SWMU definition includes the following:

- RCRA-regulated units, such as container storage areas, tanks, surface impoundments, waste piles, land treatment units, landfills, incinerators, and underground injection wells
- Closed and abandoned units
- Recycling units, wastewater treatment units, and other units that EPA has generally exempted from standards applicable to hazardous waste management units
- Areas contaminated by routine and systematic releases of wastes or hazardous constituents. Such areas might include a wood preservative drippage area, a loading-unloading area, or an area where solvent used to wash large parts has continually dripped onto soils.

An AOC is defined as any area where a release to the environment of hazardous waste or constituents has occurred or is suspected to have occurred on a nonroutine and nonsystematic basis. This includes any area where such a release in the future is judged to be a strong possibility.

The purpose of the PA is as follows:

- Identify SWMUs and AOCs at the facility.
- Obtain information on the operational history of the facility.
- Obtain information on releases from any units at the facility.
- Identify data gaps and other informational needs to be filled during the VSI.

The PA generally includes review of all relevant documents and files located at state offices and at the EPA Region 5 office in Chicago.

The purpose of the VSI is as follows:

- Identify SWMUs and AOCs not discovered during the PA.
- Identify releases not discovered during the PA.
- Provide a specific description of the environmental setting.
- Provide information on release pathways and the potential for releases to each medium.
- Confirm information obtained during the PA regarding operations, SWMUs, AOCs, and releases.

The VSI includes interviewing appropriate facility staff, inspecting the entire facility to identify all SWMUs and AOCs, photographing all SWMUs, identifying evidence of releases, initially identifying potential sampling locations, and obtaining all information necessary to complete the PA/VSI report.

This report documents the results of a PA/VSI of the Caterpillar facility in Mapleton, Illinois. The PA was completed on January 21, 1992. RAI gathered and reviewed information from the

Illinois Environmental Protection Agency (IEPA) and from EPA Region 5 RCRA files. RAI also reviewed relevant publications from the U.S. Department of Agriculture (USDA), Soil Conservation Service (SCS), U.S. Department of Commerce (USDC), U.S. Geological Survey (USGS), Federal Emergency Management Agency (FEMA), and the Illinois State Geological Survey (ISGS). The VSI was conducted on January 22, 1992. It included interviews with facility representatives and a walk-through inspection of the facility. Thirteen SWMUs and four AOCs were identified at the facility.

RAI completed EPA Form 2070-12 using information gathered during the PA/VSI. This form is included in Attachment A. The VSI is summarized and 11 inspection photographs are included in Attachment B. Field notes from the VSI are included in Attachment C.

2.0 FACILITY DESCRIPTION

This section describes the facility's location, past and present operations (including waste management practices), waste generating processes, history of documented releases, regulatory history, environmental setting, and receptors.

2.1 FACILITY LOCATION

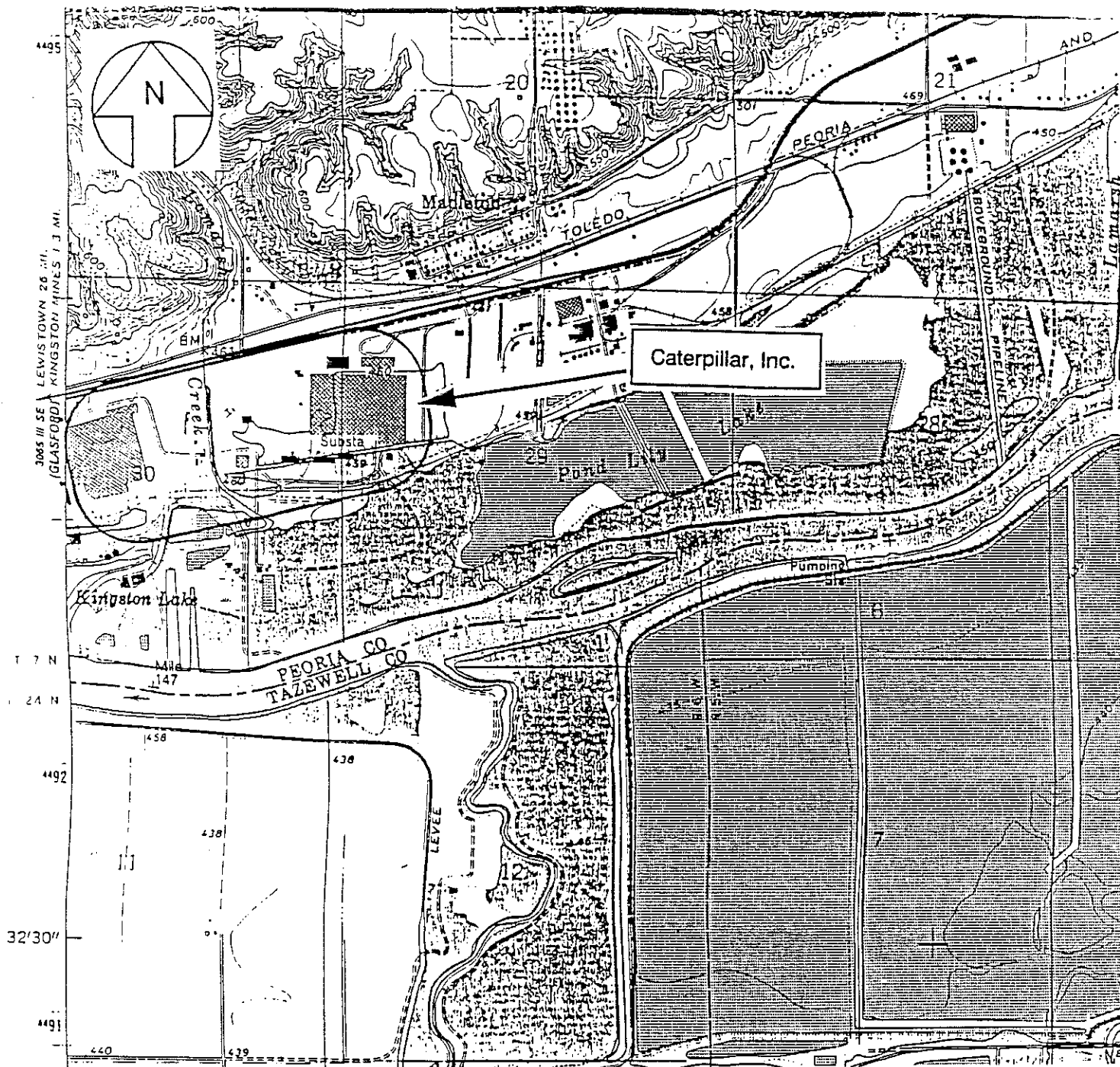
The Caterpillar facility is located at 8826 W. Route 24 in Mapleton, Peoria County, Illinois (latitude 40°33'35" N and longitude 89°44'08" W), as shown in Figure 1. The facility occupies 608 acres in an industrial area.

The Caterpillar facility is bordered on the north by U.S. Route 24/Illinois Route 9 and the Village of Mapleton, on the east by two chemical plants, on the south by the Illinois River, a barge terminal, and a warehouse, and on the west by open land and farmland.

2.2 FACILITY OPERATIONS

According to the facility representative, Caterpillar started their operations in Building B in 1967 and operated until 1986. A new building, Building D, started operations in 1978 and is currently in operation. In 1986, the company incorporated in Delaware as Caterpillar Inc. and the name was changed to reflect the new status. The facility regulatory status is that of a large-quantity generator and storage facility. Before 1967 the area was unimproved open land.

Caterpillar ceased operations in Building B in 1986. When operating, this facility was a grey iron foundry used for the manufacture of engine and heavy equipment castings. Its Standard Industrial Code was 3321. A facility layout of Caterpillar is included as Figure 2. Figure 3 is an enlargement of Figure 2 and includes locations of SWMUs and AOCs. Table 1 presents the SWMUs identified at the facility.



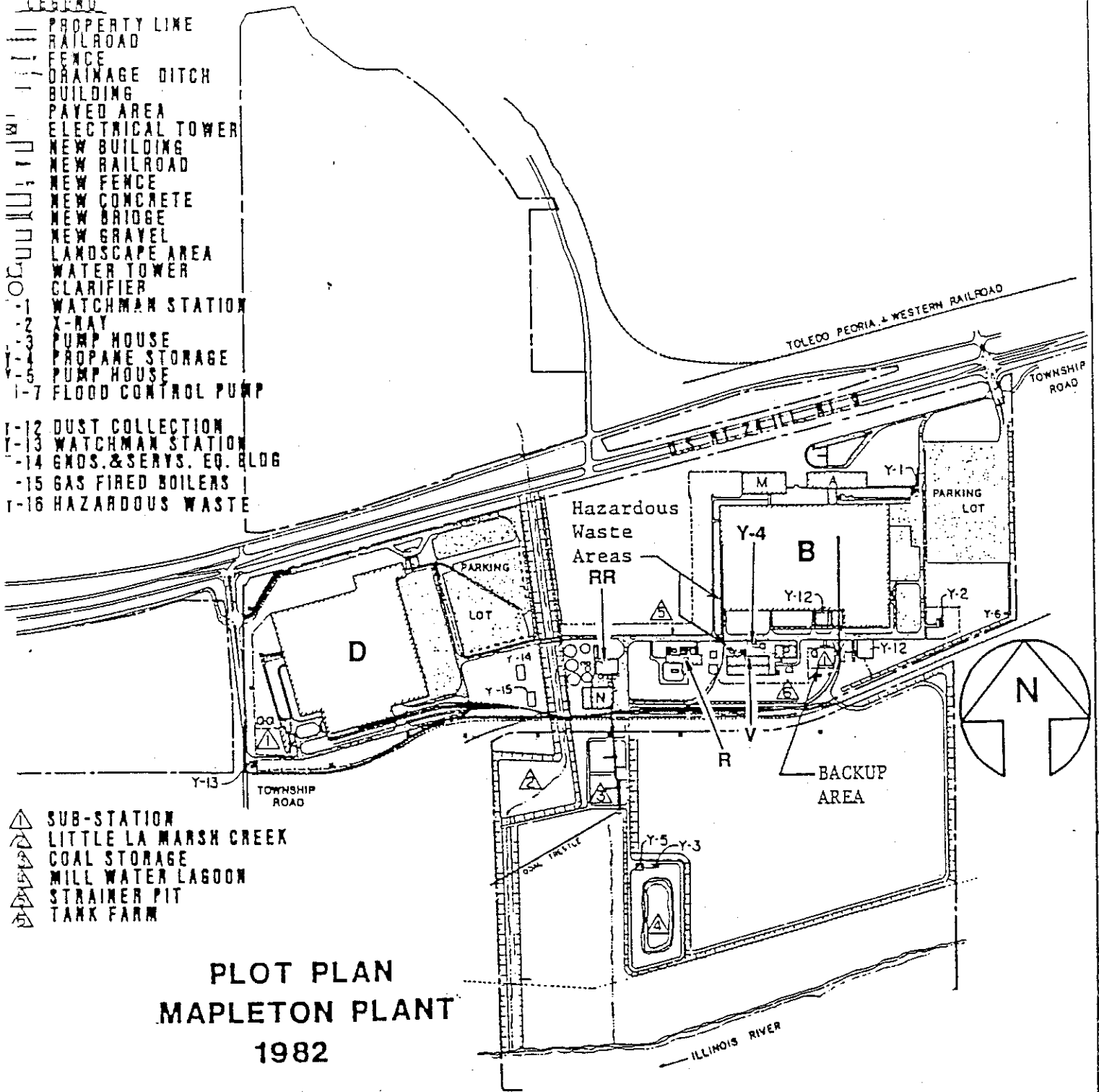
Caterpillar, Inc.
Mapleton, Illinois

Figure 1
FACILITY LOCATION

Scale: 1:24,000
Source: Modified from USGS, 1979

 Resource Applications, Inc.

- LEGEND**
- PROPERTY LINE
 - RAILROAD
 - FENCE
 - DRAINAGE DITCH
 - BUILDING
 - PAVED AREA
 - ELECTRICAL TOWER
 - NEW BUILDING
 - NEW RAILROAD
 - NEW FENCE
 - NEW CONCRETE
 - NEW BRIDGE
 - NEW GRAVEL
 - LANDSCAPE AREA
 - WATER TOWER
 - CLARIFIER
 - WATCHMAN STATION
 - X-RAY
 - PUMP HOUSE
 - PROPANE STORAGE
 - PUMP HOUSE
 - FLOOD CONTROL PUMP
 - DUST COLLECTION
 - WATCHMAN STATION
 - ENDS. & SERVS. EQ. BLDG
 - GAS FIRED BOILERS
 - HAZARDOUS WASTE



- ▲ SUB-STATION
- ▲ LITTLE LA MARSH CREEK
- ▲ COAL STORAGE
- ▲ MILL WATER LAGOON
- ▲ STRAINER PIT
- ▲ TANK FARM

**PLOT PLAN
MAPLETON PLANT
1982**

Caterpillar, Inc.
Mapleton, Illinois

Figure 2
FACILITY LAYOUT

Scale: 1" = 1000'
Source: Caterpillar, 1982



Resource Applications, Inc.

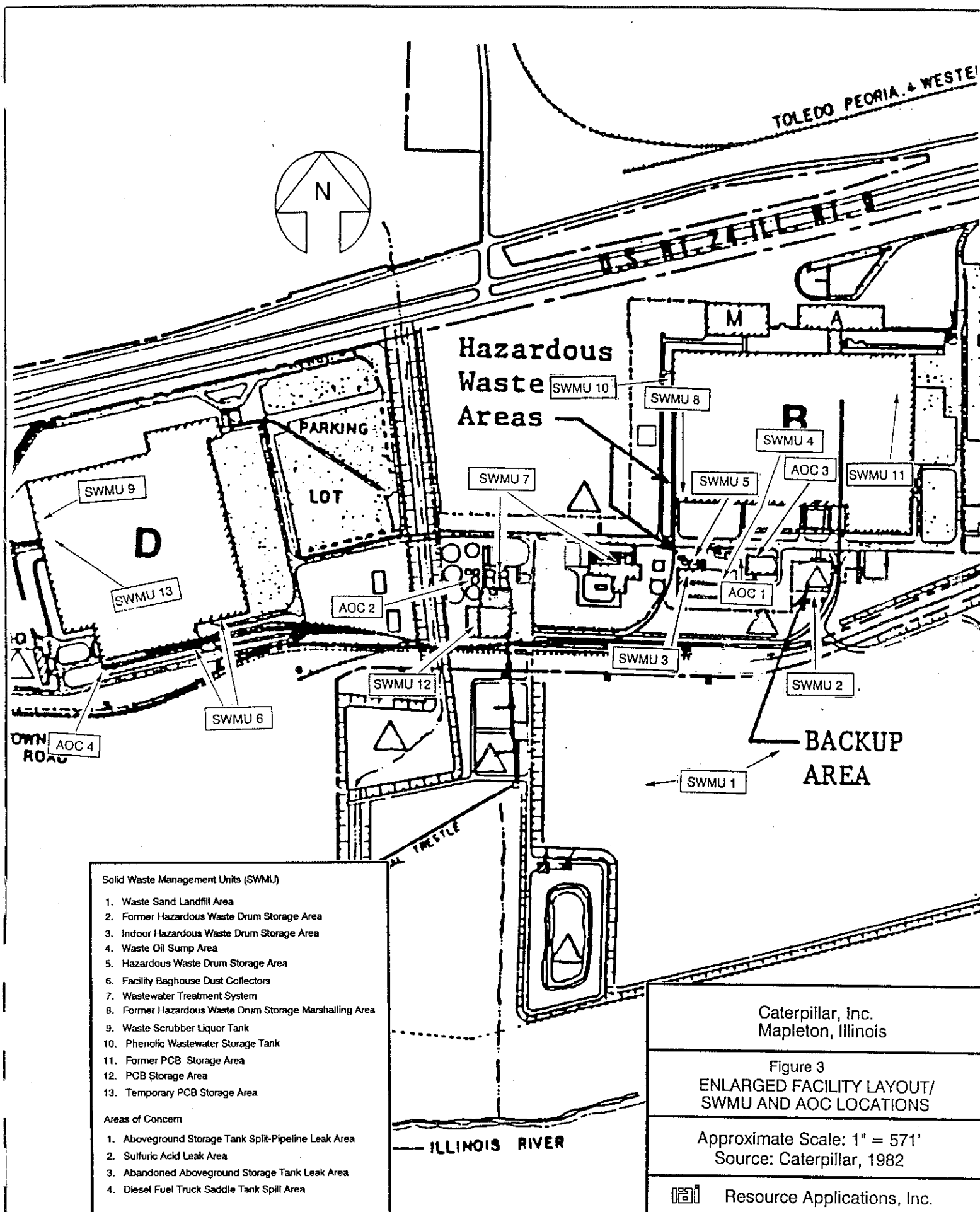


TABLE 1
SOLID WASTE MANAGEMENT UNITS

<u>SWMU Number</u>	<u>SWMU Name</u>	<u>RCRA Hazardous Waste Management Unit^a</u>	<u>Status</u>
1	Waste Sand Landfill Area	No	Active, estimated year for final closure is 1995.
2	Former Hazardous Waste Drum Storage Area	Yes	Inactive, stored greater than 90 days, awaiting RCRA closure plan approval by IEPA.
3	Indoor Hazardous Waste Drum Storage Area	Yes	Active, greater than 90-day storage, awaiting RCRA closure plan approval by IEPA.
4	Waste Oil Sump Area	No	Active, less than 90-day storage.
5	Hazardous Waste Drum Storage Area	Yes	Active, greater than 90-day storage, awaiting RCRA closure plan approval by IEPA.
6	Facility Baghouse Dust Collectors	No	Active, less than 90-day storage.
7	Wastewater Treatment System	No	Active, less than 90-day storage.

Note:

^a A RCRA hazardous waste management unit is one that currently requires or formerly required submittal of a RCRA Part A or Part B permit application.

TABLE 1 (continued)
SOLID WASTE MANAGEMENT UNITS

<u>SWMU Number</u>	<u>SWMU Name</u>	<u>RCRA Hazardous Waste Management Unit^a</u>	<u>Status</u>
8	Former Hazardous Waste Drum Storage Marshalling Area	Yes	Inactive, stored greater than 90 days, awaiting RCRA closure plan approval by IEPA.
9	Waste Scrubber Liquor Tank	No	Active, less than 90-day storage.
10	Phenolic Wastewater Storage Tank	No	Inactive, stored nonhazardous phenolic wastewater prior to on-site treatment.
11	Former PCB Storage Area	No	Inactive, stored PCB waste only.
12	PCB Storage Area	No	Active, stores PCB waste only.
13	Temporary PCB Storage Area	No	Inactive, stored PCB waste only.

Note:

^a A RCRA hazardous waste management unit is one that currently requires or formerly required submittal of a RCRA Part A or Part B permit application.

The facility has operated at its current location since 1967 and employs about 800 people. The facility consists of many buildings, which are described as follows: Office (A) (61,640 square feet), Foundry (D) (1,519,660 square feet), Electric Switch House (Q) (3510 square feet), Electric Switch House (QQ) (11,450 square feet), Air Compressor/Waste Treatment (R) (40,815 square feet), Waste Treatment (RR) (47,700 square feet), Storage and Receiving (V) (52,700 square feet, Watch Shelter (Y-1) (3,070 square feet), X-Ray (Y-2) (1,700 square feet), Pump House (Mill Water) (Y-3) (1,710 square feet), Compressed Gas Storage (Y-4) (1,200 square feet), Pump House (Mill Water) (Y-5) (4,200 square feet), Pump House (Flood Control) (Y-6) (312 square feet), Pump House (Flood Control) (Y-7) (465 square feet), Guard House (Y-13) (660 square feet), Yard Equipment Storage (Y-14) (6,250 square feet), Temporary Boiler Plant (Y-15) (6,000 square feet) and Hazardous Waste Drum Storage Building (Y-16) (450 square feet). Buildings A, Q, Y-1, and Y-15 are inactive, as are additional buildings which include the Foundry (B), Pattern Shop (M), Heating Plant (N), and Garage/Investment Foundry (P).

There are 13 SWMUs of which five are presently inactive (SWMUs 2, 8, 10, 11, and 13). The Waste Sand Landfill Area (SWMU 1) is permitted by the State of Illinois as a Solid Waste Disposal Site and is used only for nonhazardous waste sand from the foundry operations. Discharge from the Wastewater Treatment System (SWMU 7) is regulated under a National Pollutant Discharge Elimination System (NPDES) permit. This system was started in the mid-1970s and is still in operation. Three areas have stored PCBs (SWMUs 11, 12, and 13), which are managed under the Toxic Substances Control Act (TSCA). The actual foundry process consists of four steps, which are: (1) the making of cores, which represent hollow portions of the finished product; (2) molding, which consists of forming sand around a pattern, after which the pattern is removed, thus leaving a void which now represents the external shape of the finished product and setting cores in position; (3) pouring molten iron into the void, thus forming the actual product; and (4) finishing, which removes bumps and rough edges.

2.3 WASTE GENERATING PROCESSES

Wastes are generated and managed at various locations throughout the facility. Facility generation and management of both hazardous and nonhazardous wastes are discussed below. Some

of the waste streams may be hazardous and nonhazardous and are so indicated in the discussion. The waste codes are those assigned by the facility.

The primary waste streams generated at the Caterpillar facility are waste refractory coating (D001, F002, U226, nonhazardous), waste resins (D001, D002, F002, U122, nonhazardous), waste core catalyst (D001, D002, nonhazardous), waste janitorial products (D002, nonhazardous), unused cooling tower chemicals (D001, D002, nonhazardous), waste off-specification chemical (U226), and nonhazardous waste triethylamine scrubber liquor, waste grease, waste oil, waste sand, dust waste, polychlorinated biphenyls (PCB), dewatered sludge, and nonhazardous phenolic wastewater. In the past, waste triethylamine scrubber liquor (D002) and waste grease (D008) were also generated. These wastes are, or were, generated during the manufacture of gray iron castings. Wastes generated at the facility are discussed below and are summarized in Table 2. The discussion, including waste generation rates, will be based on the results of an IEPA inspection report dated December 9 and 16, 1988, and discussions with facility representatives. Wastes have been stored in the Former Hazardous Waste Drum Storage Area (SWMU 2), Indoor Hazardous Waste Drum Storage Area (SWMU 3), Hazardous Waste Drum Storage Area (SWMU 5), and Former Hazardous Waste Drum Storage Marshalling Area (SWMU 8), as listed in Table 2, but records are not available to indicate which specific wastes were stored in which specific units (Caterpillar, 1992a). SWMUs 2, 3, 5, and 8 became active in 1980s, and SWMUs 2 and 8 are presently inactive. The dates SWMUs 2 and 8 became inactive are unknown.

Caterpillar's core manufacturing operation generates several types of waste refractory coatings (D001, F002, U226, nonhazardous). The refractory coating is used to prevent molten iron from sticking to the sand during mold pouring and cooling. The core is dipped into a tank in order to apply the refractory coating. The waste is generated during periodic cleaning of the tank. The process generates an alcohol-based (D001), a solvent (1,1,1-trichloroethane)-based (F002, U226), or a nonhazardous water-based coating, each mixed with clay. The waste was stored in SWMUs 2, 3, 5, and 8. The facility generates an average of 10 drums or less per year (Caterpillar, 1993a). The solvent-based waste is transported off site by Chemical Waste Management (CWM) to Trade Waste Incineration (TWI) in Sauget, Illinois. This waste is treated by incineration. The alcohol-based coating is delivered by CWM to the CWM, Emelle Facility (CWM, EM) in Emelle, Alabama for fuel

TABLE 2
SOLID WASTES

<u>Waste/EPA Waste Code^a</u>	<u>Source</u>	<u>Solid Waste Management Unit</u>
Waste Refractory Coating/D001, F002, U226, NA	Air dry core, dip and mold spray	2, 3, 5, 8
Waste Resins/D001, D002, F002, U122, NA	Core Room	2, 3, 5, 8
Waste Core Catalyst/D001, D002, NA	Core Room	2, 3, 5, 8
Waste Janitorial Products/D002, NA	Facility Cleaning	2, 3, 5, 8
Unused Cooling Tower Chemicals/D001, D002, NA	Cooling Towers	2, 3, 5, 8
Waste Off-Specification Chemical/U226	Foundry Process	2, 3, 5, 8
Waste Triethylamine Scrubber Liquor/D002, NA	Core Room	9
Waste Grease/D008, NA	Machinery	2, 3, 5, 8
Waste Oil/NA	Sump Area	4
Waste Sand ^b	Foundry Process	1

Notes:

^a Not applicable (NA) designates nonhazardous waste.

^b Caterpillar claims that this waste is nonhazardous (Caterpillar 1992b). IEPA regulates it as a nonhazardous special waste (IEPA 1988a, 1989). Hazardous constituent analyses for this waste were not provided. Hence, no waste designation has been provided.

TABLE 2 (continued)
SOLID WASTES

<u>Waste/EPA Waste Code^a</u>	<u>Source</u>	<u>Solid Waste Management Unit</u>
Dust Waste ^b	Foundry Process	1, 6
PCBs	Capacitors & Transformers	11, 12, 13
Dewatered Sludge/NA	Wastewater Treatment Plant	7
Phenolic Wastewater/NA	Core equipment cleaning	10

Notes:

^a Not applicable (NA) designates nonhazardous waste.

^b Caterpillar claims that this waste is nonhazardous (Caterpillar 1992b). IEPA regulates it as a nonhazardous special waste (IEPA 1988a, 1989). Hazardous constituent analyses for this waste were not provided. Hence, no waste designation has been provided.

blending, while the water-based waste is shipped to CWM, EM for stabilization and landfill (Caterpillar, 1993a).

Caterpillar's core manufacturing operation also generates several types of waste resin (D001, D002, F002, U122, nonhazardous). The resins are used during core manufacturing for binding sand. The waste was stored in SWMUs 2, 3, 5, and 8. The facility generates an average of five drums per month (Caterpillar, 1992b). The waste is transported off site by CWM to CWM, EM for incineration (Caterpillar, 1993a).

Caterpillar's core manufacturing operation generates several types of waste core catalysts (D001, D002, nonhazardous). The core catalysts are used to increase the rate of chemical reaction during core manufacturing (IEPA, 1990a). The waste was stored in SWMUs 2, 3, 5, and 8. The facility generates an average of six drums or less per year (Caterpillar, 1993a). The waste is transported off site by CWM to CWM, EM for fuel blending, stabilization, and landfill (Caterpillar, 1992b).

Caterpillar generates waste janitorial products (D002, nonhazardous) from facility cleaning. The waste was stored in SWMUs 2, 3, 5, and 8. The facility generates an average of one drum or less per year (Caterpillar, 1993a). The waste is transported off site by CWM to CWM, EM for stabilization and landfill (Caterpillar, 1992b).

Caterpillar generated unused cooling tower chemicals (D001, D002, nonhazardous). The facility generated this waste as a one-time generation event during the 1980s. The waste was transported by CWM to CWM, EM for fuel blending, stabilization, and landfill (Caterpillar, 1993a).

Caterpillar utilizes 1,1,1-trichloroethane as a solvent for general cleaning operations (IEPA, 1990a). The spent solvent is the previously discussed waste refractory coating (F002). The waste off-specification chemical (U226) was stored in SWMUs 2, 3, 5, and 8. The facility generates an average of one drum or less per year of this waste. Most of these drums are transported off site by CWM to TWI in Sauget, Illinois for incineration, and the remainder are transported to CWM, EM for solvent recovery (Caterpillar, 1992b).

Caterpillar generates waste triethylamine scrubber liquor (D002, nonhazardous) as a result of an air scrubber operation in the core room. Due to modifications of the operation several years ago, the waste is currently nonhazardous, although in the past it had a hazardous characteristic (D002). This waste is accumulated in the Waste Scrubber Liquor Tank (SWMU 9), an aboveground storage tank located in the basement. This waste is generated at a rate of approximately 3,000 gallons per month. The waste is emptied from the scrubber to the storage tank by gravity feed. When the tank is full, the waste is transferred to a highway tanker truck by hauling it in a small, in-house (approximately 400-gallon) tanker. The wastes are transported off site by the Peoria Disposal Company, Peoria, Illinois to Clean Harbors of Cleveland, Ohio for aqueous organic treatment (Caterpillar, 1993a).

Caterpillar generates nonhazardous waste grease and nonhazardous waste oil as a result of maintenance operations of vehicles and machinery. On one occasion in the past, drums of waste grease (D008) were generated, apparently from leaded bearings contaminating the grease. The waste grease is stored in SWMUs 2, 3, 5, or 8. The oil operation involves the Waste Oil Sump Area (SWMU 4), which is pumped out by the recycler's truck. The facility generates approximately one to three drums per year of the waste grease and 1,000 gallons per month of the waste oil. The waste grease (D008, nonhazardous) was transported by CWM and taken to CWM, EM for stabilization and landfill. The nonhazardous waste oil is transported by Safety-Kleen Corporation to Breslube USA, Inc., East Chicago, Indiana, for reclamation (Caterpillar, 1993a).

Caterpillar generates waste sand from foundry processes. This waste is disposed of on site in Caterpillar's privately owned Waste Sand Landfill Area (SWMU 1). Caterpillar claims that this waste is nonhazardous (Caterpillar, 1992b). IEPA regulates the waste sand as a nonhazardous special waste (IEPA 1988a, 1989). Hazardous constituent analyses for this waste were not provided by Caterpillar. Hence, no waste designation has been provided. The Waste Sand Landfill Area (SWMU 1) has monitoring wells which were installed in December 1991 and January 1992, and according to the facility representative, data from ground water monitoring is submitted quarterly to IEPA and no indication of ground water contamination has been identified (Caterpillar, 1993b). The landfill covers an area of 82 acres and is located south of Building B and north of the Illinois River. The facility's estimate of the annual volume of waste received is 61,000 cubic yards (IEPA, 1991). The total capacity of the landfill is greater than 2 million cubic yards. It is estimated that the landfill will

remain in operation until approximately 1995 or 1997. The waste is transported by Caterpillar's own trucks, scrapers and other hauling equipment. The waste sand is moved into place and compacted using common earthworking machinery.

Caterpillar generates dust waste which is captured in the Facility Baghouse Dust Collectors (SWMU 6) south of Building D. These are air pollution control devices, used for controlling solid particulate emissions to the atmosphere by utilizing an induced draft fan and collecting the dust in a series of special-type cloth bags. The dust particulates are automatically removed from the bags and gravity fed onto a conveyor. The conveyor then transports the waste dust to a storage hopper where it is mixed with sand and water. The waste is generated at the rate of approximately 10 cubic yards per month. The waste is then taken to the Waste Sand Landfill Area (SWMU 1). Caterpillar claims that this waste is nonhazardous (Caterpillar, 1992b). IEPA regulates the dust waste as a nonhazardous special waste (IEPA, 1988b, 1989). Hazardous constituent analyses for this waste were not provided by Caterpillar. Hence, no waste designation has been provided. The Waste Sand Landfill Area has monitoring wells which were installed in 1991 and 1992.

Caterpillar generates significant amounts of PCBs periodically when old equipment containing PCB capacitors and transformers breaks down or becomes unserviceable. Caterpillar is no longer purchasing new components which utilize PCBs. The drummed wastes which may be contaminated with PCBs were initially stored in the Former PCB Storage Area (SWMU 11) and subsequently stored in the PCB Storage Area (SWMU 12) and then shipped for incineration to various incinerators (IEPA, 1986). Contaminated debris from a capacitor fire cleanup in 1984 were stored in the Temporary PCB Storage Area (SWMU 13).

Caterpillar's Wastewater Treatment System (SWMU 7) generates dewatered sludge (nonhazardous) as a residue. The sludge is collected from the acid-alkali-oil (AAO) treatment systems, sanitary treatment system, and the dust collector wastewater (DCWW) systems. Dewatered sludge is estimated to be 40 percent solid and is transferred from the drying units to a truck loadout area with belt conveyors, all of which are a part of SWMU 7. It is estimated that 60 to 80 cubic yards per day of dry sludge is disposed of at the Peoria City/County Landfill (Caterpillar, 1993a).

Between the mid-1970s and the early 1980s, Caterpillar generated a nonhazardous phenolic wastewater. This wastewater was generated from the core manufacturing process in Building B. Water was used to clean the core manufacturing machines and the resultant wastewater contained low levels of phenols from core resins used during the production (Caterpillar, 1992e). According to Illinois Disposal Permit No. 781475, this wastewater was nonhazardous (Caterpillar, 1992d). The wastewater was directed to the Phenolic Wastewater Storage Tank (SWMU 10) via a piping system. The phenolic wastewater was then discharged to the facility's on-site sanitary waste treatment plant for biological treatment along with the facility's sanitary waste (Caterpillar, 1992e). According to a facility representative, an off-site disposal permit was maintained by Caterpillar in the event that the storage/treatment capacity became insufficient. It is not known if Caterpillar ever utilized this disposal permit.

2.4 HISTORY OF DOCUMENTED RELEASES

Between the mid-1970s and early 1980s, Caterpillar generated a nonhazardous phenolic wastewater from the cleaning of the core manufacturing machines (Caterpillar, 1992e). This wastewater was stored in the Phenolic Wastewater Storage Tank (SWMU 10) prior to on-site biological treatment. According to a facility representative, overflows occurred at this tank resulting in the phenolic wastewater being released to uncovered soil beneath and around SWMU 10. The facility was unable to provide any information regarding dates, amounts, or remedial activities associated with these releases.

On March 22, 1982, there was a small gasoline leak from a damaged discharge line on a small tank located on a Building D slab. The leak was reported to National Response Center (NRC) the same day. There was no release to any environmental media (Caterpillar, 1992a).

On June 11, 1982, there was a mercury (D009) spill inside Building B (molding) which occurred from a broken counterweight. The spill was reported to NRC on June 23, 1982. The spill occurred in a mold line shakeout area. This particular shakeout area used counterweights filled with mercury, which were used to produce a vibratory action needed to shake sand off castings. The counterweight was damaged and released approximately 12 pounds of mercury. The mercury spill was on a concrete floor and was cleaned up so that there was no release to the environment. The

concrete floor is 10 inches thick. The mercury was given to a Caterpillar laboratory for their use. There is no documentation of cleanup approval from IEPA (Caterpillar, 1992a).

On December 1, 1982, there was a gasoline pipeline leak, the Aboveground Storage Tank (AST) Split-Pipeline Leak Area (AOC 1). There was a split in a pipe that fed gasoline from an AST into pumps for vehicles. This area is located immediately south of Building B. The line was shut off. The leak was reported to NRC on December 1, 1982. According to a facility representative, sampling and any necessary removal and proper disposal of soil are scheduled for the near future (Caterpillar, 1992a).

On February 4, 1983, there was a release of a caustic cleaning solution. A facility representative stated that the only record of this incident is a release report made by telephone to NRC in 1983. The facility representative also commented that the release report does not list the location of the spill, although it indicates the material was collected for proper disposal (Caterpillar, 1992a). There was no documentation of release to the environment.

A fire in a capacitor vault, in Building B, on June 20, 1984 caused the release of PCB-contaminated water onto the ground outside the south end of the building and into a catch basin called Y-6 (see Figure 2). This spill involved approximately 100 gallons of PCB-contaminated water from a number of small capacitors, which resulted in an extensive cleanup which is now complete. IEPA submitted a letter to Caterpillar, approving the cleanup of the PCB spill (IEPA, 1985).

On November 6, 1990, there was a sulfuric acid leak from an acid feed line for the wastewater treatment plant, outside on the west side of Building RR, referred to as the Sulfuric Acid Leak Area (AOC 2), which was reported to NRC on the same day. The leak had contaminated soil in the immediate area. The contaminated soil was removed by Caterpillar personnel and shipped out (Caterpillar, 1992a). There is no documentation of any soil sampling subsequent to remediation. No information was available on the transporter used or the ultimate disposition of the contaminated soil.

On December 19, 1991, a truck (not Caterpillar's) had an accident at the Caterpillar facility. As a result of the accident, a diesel fuel saddle tank was ripped away from the truck causing a spill in the Diesel Fuel Truck Saddle Tank Spill Area (AOC 4), which contaminated the soil near the

southwest corner of Building D. The owner of the truck contracted a spill response company to clean up the area. Some contaminated soil was removed and disposed of by the spill response company. There is no documentation of sampling or where the contaminated soil was shipped (Caterpillar, 1992a).

In mid-January 1992, Caterpillar detected a release in the Abandoned Aboveground Storage Tank Leak Area (AOC 3). The incident was reported to the Illinois Emergency Services and Disaster Agency (IESDA). The tank contained gasoline, which was originally used for fuel in vehicles. The aboveground pump station which would have worked in conjunction with this tank has been removed. Based on tests which were taken at the site, some contamination was detected. There is no documentation as to the type of tests which were taken or when they were taken. It is also understood that Caterpillar intends to perform more testing and to remediate as required. It is not known what type of testing will be performed. IESDA has notified IEPA about the release (Caterpillar, 1992c). No further information was given to RAI regarding this release.

2.5 REGULATORY HISTORY

According to an IEPA inspection report, Caterpillar submitted a Notification of Hazardous Waste Activity to EPA on August 18, 1980 (IEPA, 1988b). A copy of Caterpillar's notification could not be obtained by RAI. The facility submitted a RCRA Part A permit application on November 17, 1980 (Caterpillar, 1980). The application listed the following wastes: D001, D002, D006, D008, D013, D017, F001, U009, U121, U122, U133, U154, U188, U226, U228, and U242. The process design capacity is listed as a 33,000-gallon drum storage area (S01), 500-gallon storage tank (S02), 500 liters-per-day treatment (T04), and 20 gallons-per-day tank treatment (T01). The total estimated quantity of waste was 1,293,000 pounds per year. The above does not include PCB waste, which is managed separately and shipped to various incineration facilities for disposal. According to a facility representative, the S02 designation referred to the Phenolic Wastewater Storage Tank (SWMU 10) and although the capacity for SWMU 10 could not be determined, it was greater than 500 gallons. On December 21, 1984, Caterpillar submitted a revision to the Part A permit application to change its waste codes (Caterpillar, 1984). This letter stated that the Caterpillar, Mapleton plant did not have any hazardous waste storage tanks in use. They had filed incorrectly. The application listed the following wastes: D001, D002, D008, and U226. The process design

capacity is listed as a 33,000-gallon drum storage area (S01). The total estimated quantity of waste is 286,000 pounds per year. On May 31, 1989, Caterpillar submitted a revision to the Part A permit application to change its waste codes (Caterpillar, 1989). The application listed the following wastes: D001, D002, D003, F002, U122, and U226. The process design capacity is listed as a 55,000-gallon drum storage area (S01). The total estimated quantity of waste is 28,000 pounds per year.

Caterpillar is currently in the process of closing the following SWMUs: Former Hazardous Waste Drum Storage Area (SWMU 2), Indoor Hazardous Waste Drum Storage Area (SWMU 3), Hazardous Waste Drum Storage Area (SWMU 5) and Former Hazardous Waste Drum Storage Marshalling Area (SWMU 8) (Caterpillar, 1987). These four SWMUs will go through RCRA closure following approval of closure plans, which Caterpillar has submitted to IEPA (Caterpillar, 1993b).

Caterpillar is classified as a large-quantity generator and storage facility (IEPA, 1988a). The Waste Sand Landfill Area (SWMU 1) is permitted by the State of Illinois as a solid waste disposal site for nonhazardous special waste (LPC No. 143 805 004) (IEPA, 1988a, 1991). Caterpillar claims that SWMU 1 manages nonhazardous waste (Caterpillar, 1992b). IEPA documents indicate that the waste in SWMU 1 consists of nonhazardous special waste sand and dust generated in the Caterpillar foundry (IEPA, 1988a, 1989). Since this unit manages nonhazardous special waste, IEPA documents also refer to this unit as a special waste landfill (IEPA, 1988a, 1989). The IEPA special waste permit and supplemental permit, required for disposal of the waste in SWMU 1, are No. 1975-2-OP and 1991-300-SP.

The Wastewater Treatment System (SWMU 7) discharges treated wastewater from the foundry process and sanitary sources to the Illinois River from three outfalls (001A, 001B, 001C). The discharges from SWMU 7, sanitary, and noncontact cooling water sources are regulated under NPDES Permit No. IL0001830, effective September 22, 1990 (IEPA, 1990b). Caterpillar releases noncontact cooling water to the Illinois River without treatment (Caterpillar, 1991). The primary parameters to be monitored and limited for the sanitary and process outfall (outfall 001A) are pH, BOD₅, total suspended solids, chromium (total), chromium (hexavalent), iron, zinc, phenol, oil and grease, fecal coliform, and chlorine residual. The primary parameters to be monitored for the noncontact cooling water outfall (001B) are temperature, pH, and oil and grease. The primary parameters to be monitored and limited for the dust collection scrubber wastewater outfall (outfall

001C) are pH, total suspended solids, oil and grease, copper, lead, zinc, chlorine residual, and phenol. In addition, Caterpillar will continually evaluate the potential for discharge of other pollutants not specifically limited in the permit (Caterpillar, 1990).

A RCRA compliance inspection was conducted by IEPA in September 1987. Violations related to an inadequate contingency plan were noted (IEPA, 1987). Caterpillar responded to these violations; however, no further documentation was available (Caterpillar, 1987). Other inspections were conducted in December 1988, July 1989 and May 1990. Inspectors noted violations related to hazardous waste storage tank violations (referring to SWMU 9) (IEPA, 1988b), violation of special waste handling (IEPA, 1989) and failure to file a closure plan (IEPA, 1990a). No documentation regarding resolution of these violations was available to RAI.

The facility has operating air permits for the following areas: Boiler 1 (coal), Boiler 2-3 (coal), Boiler 4-5 (coal), Boiler 1 (oil), Boiler 2-3 (gas), Boiler 5 (oil), Kewanee Boilers, D-Core, D-Mold Line 1 and 2, D-Mold Line 4, D-Melting, Phase II Melting, D-Finishing, 3500 Area, 3600 Area, D-Camshaft/Manufacturing Development, Pattern Shop, Organic Liquid, Bulk Chemical, and Open Burning (Caterpillar, 1993a). The facility has no history of odor complaints or documented air permit compliance problems.

2.6 ENVIRONMENTAL SETTING

This section describes the climate, flood plain and surface water, geology and soils, and ground water in the vicinity of the Caterpillar facility.

2.6.1 Climate

The climate in Peoria County is continental, with wide variations in temperature between summer and winter. The average daily temperature is 50.4°F. The lowest average daily temperature is 13.3°F in January. The highest average daily temperature is 85.5°F in July (NOAA, 1990).

The average annual precipitation for Peoria is 34.89 inches (NOAA, 1990). The mean annual lake evaporation for the area is about 32 inches (USDC, 1968). The 1-year, 24-hour maximum

rainfall is 5.06 inches (NOAA, 1990). Average annual snowfall is 24.7 inches. Precipitation is somewhat evenly distributed throughout the year, with slightly more falling in spring and summer (NOAA, 1990).

The prevailing wind is from the south, except during the winter months, when winds from the west-northwest may be more frequent. Average annual wind speed is 10.0 miles per hour (mph). Average wind speed is highest in March, at 12.1 miles per hour. The average relative humidity is about 71 percent. Humidity is higher at night, and the average at dawn is about 83 percent (NOAA, 1990).

2.6.2 Flood Plain and Surface Water

The portion of the Caterpillar facility property south of the main plant buildings lies within the 500-year flood plain but outside the 100-year flood plain. The remainder of the property is outside the 500-year flood plain (FEMA, 1983). The nearest surface water body is the Illinois River which is located next to the southern property line and is approximately 700 feet from the nearest Caterpillar building. The Illinois River is used for recreational, agricultural, industrial and municipal water supply purposes. This surface water body discharges to the Mississippi River.

Surface water drainage at the facility is to the south toward the Illinois River. Storm water discharges (drains) rapidly toward the Illinois River. Two major surface water bodies are in the area. The Little Lamarsh Creek runs north and south basically through the center of the Caterpillar property, between Buildings B and D and drains into the Illinois River. Little Lamarsh Creek is used for drainage purposes. The other main surface water body is Pond Lily Lake, located approximately 1 mile southeast of Caterpillar's Building B and is just north of the Illinois River. Wetlands are abundant in the area. The entire Caterpillar site was originally wetlands before it was altered for the current land use (USDA, 1992). There are no drinking water wells on site. The nearest ground water wells are in the Village of Mapleton, approximately 0.5 mile north (upgradient) from Caterpillar. According to the facility representative, additional wells may be on industrial property east of the facility (Caterpillar, 1993a).

2.6.3 Geology and Soils

The facility is underlain by Orthents-Urban Land according to the Peoria County Soil and Water Conservation District (PCSWCD). Accordingly, this unit is defined as disturbed and/or developed lands, consisting mainly of fill, and often where underlying or original soils can no longer be distinguished. The soil in the vicinity of the plant is sandy loam to a depth of 13 feet. Below this is a layer of compacted blue clay from 2 to 8 feet thick. To the east of the facility are original deposits classified as Dickinson soils. The topsoil is characterized by very dark brown, very dark gray and dark brown friable fine sandy loam. The subsoil is characterized by very dark grayish brown, dark brown and yellowish brown friable fine sandy loam in the upper part and yellowish brown loamy sand in the lower part. The underlying material is principally brown sand to a depth of 60 inches (PCSWCD, 1992).

No site-specific geologic information was available, but in the vicinity of the Caterpillar facility, the surficial geology consists of Quaternary till. This is primarily sandy and slightly clayey silty till divided into two beds, often with intercalated lenses of sand and gravel. The entire land surface of Peoria County consists of unconsolidated glacial deposits, or drift, of Pleistocene (Wisconsinan) age, as well as alluvium derived from subsequent erosion of glacial materials by water (Bergstrom, 1956).

The uppermost bedrock beneath the glacial drift at the facility is Silurian in age. The rocks consist of limestones and dolomites with interbedded calcareous siltstones, and the total thickness may be greater than 250 feet. Beneath the Silurian rocks are dark gray to pale greenish-gray Ordovician shales, which are only identified in well records (Bergstrom, 1956).

2.6.4 Ground Water

In the vicinity of the facility, water may be supplied from Pleistocene sand and gravel deposits or from upper bedrock limestone of the Keokuk and Burlington Formations, which are Mississippian in age. Close proximity to the Illinois River generally produces sand and gravel aquifers which are highly permeable and excellent sources of water. However, according to the facility representative, the ground water under the facility is of poor quality and quantity, and

Caterpillar uses water from the Illinois River (Caterpillar, 1993a). Along the Illinois River in the Peoria region, the Sankoty sand and younger glacial outwash deposits are among the most prolific aquifers in the state (Bergstrom, 1956). The Sankoty sand, which forms a thick fill in and along the Illinois River valley, is the principal aquifer for municipal and industrial supplies. The thickness of this sand varies from 50 feet to 150 feet along the Illinois River, and may reach a maximum of up to 300 feet along the uplands to the west. Ground water flow at the facility is to the south. The deep wells are developed in dolomites of the Galena-Platteville Formations which are Ordovician in age (Bergstrom, 1956).

2.7 RECEPTORS

The Caterpillar facility occupies 608 acres in an industrial area in Mapleton, Illinois. Mapleton has a population of about 220. Caterpillar employs about 800 people.

The Caterpillar facility is bordered on the north by U.S. Route 24/Illinois Route 9 and the Village of Mapleton, on the west by open land and farmland, on the south by the Illinois River, a barge terminal and warehouse, and on the east by two chemical plants. The nearest school, Mapleton School, is located about 0.5 mile north of the facility. Facility access is controlled by fencing, security guards and video-monitoring (Caterpillar, 1992a). The nearest surface water body is the Illinois River, located on the south property line of the facility and is used for recreational, industrial, agricultural, and municipal water supply purposes. Other surface water bodies in the area include the Little Lamarsh Creek and Pond Lily Lake.

The Little Lamarsh Creek runs north and south, through the center of the Caterpillar property, between Buildings B and D and drains into the Illinois River. Pond Lily Lake is located approximately 1 mile southeast of Caterpillar's Building B and is on the north side of the Illinois River. Wetlands are abundant in the area. The entire Caterpillar site was originally wetlands and was altered for the current land use (USDA, 1992). There are no drinking water wells at the facility. The nearest ground water wells are in the Village of Mapleton, approximately 0.5 mile north from Caterpillar, although additional wells may be located on industrial property to the east of the facility (Caterpillar, 1993a).

3.0 SOLID WASTE MANAGEMENT UNITS

This section describes the 13 SWMUs identified during the PA/VSI. The following information is presented for each SWMU: description of the unit, dates of operation, wastes managed, release controls, history of documented releases, and RAI observations.

SWMU 1

Waste Sand Landfill Area

Unit Description:

The Waste Sand Landfill Area is an 82-acre landfill located in the southern section of the Caterpillar plant property. The landfill manages foundry sand from the Mapleton plant, consisting of core sand and waste foundry sand. Waste sand and broken cores (sand) are delivered to the landfill by trucks, scrapers and other hauling equipment. The waste materials are moved into place and compacted using common earthworking equipment. This landfill area also accepts dust waste from the Facility Baghouse Dust Collectors (SWMU 6). The total capacity of the landfill is greater than 2 million cubic yards. The landfill covers an area of approximately 2,300 feet by 1,600 feet (see Photograph No. 1)

Date of Startup:

The unit began operations in the mid-1970s.

Date of Closure:

The unit is currently operational and is permitted by the State of Illinois as a Solid Waste Disposal Site. The estimated year for final closure is 1995 to 1997.

Wastes Managed:

The unit manages waste sand, broken cores (sand), and dust waste. Caterpillar claims that this waste is nonhazardous (Caterpillar, 1992b). IEPA regulates this waste as nonhazardous special waste (IEPA, 1988b, 1989). Hazardous constituent analyses for this waste were not provided by Caterpillar. Hence, no waste designation has been

provided. The Waste Sand Landfill Area has monitoring wells which were installed in 1991 and 1992 (Caterpillar, 1993a).

Release Controls: The site was originally prepared by constructing levees on all sides and stockpiling the virgin soil for final cover. This unit has no liner. Monitoring wells are located at this unit.

History of Documented Releases: No releases from this unit have been documented. Data from ground water monitoring are submitted every quarter to IEPA and no indication of ground water contamination has been identified.

Observations: The unit appears to be clean and well kept. No visual sign of releases was observed.

SWMU 2 Former Hazardous Waste Drum Storage Area

Unit Description: The Former Hazardous Waste Drum Storage Area is surrounded by an 8-foot fence and is located south of Building Q. The area consists of an all gravel cover and occupies a space of approximately 80 feet by 80 feet. This area is no longer active (see Photograph No. 2).

Date of Startup: It is estimated to be during the 1980s.

Date of Closure: The unit is inactive; it is unknown when it became inactive. It is intended to go through RCRA closure following approval of the closure plan, which has been submitted to IEPA.

Wastes Managed: Hazardous wastes have been stored in this area, but according to a facility representative, no records are available to indicate which specific wastes were stored. The unit could have managed waste

refractory coating (D001, F002, U226, nonhazardous), waste resins (D001, D002, F002, U122, nonhazardous), waste core catalyst (D001, D002, nonhazardous), waste janitorial products (D002, nonhazardous), unused cooling tower chemicals (D001, D002, nonhazardous), waste off-specification chemical (U226) and waste grease (D008, nonhazardous).

Release Controls: No release controls were observed. Drums were originally stored on a gravel covered area.

History of Documented Releases: No releases from this unit have been documented.

Observations: There were no drums left in this area. No visual signs of release were observed.

SWMU 3 Indoor Hazardous Waste Drum Storage Area

Unit Description: The Indoor Hazardous Waste Drum Storage Area is located inside Building V. It consists of a concrete floor enclosed by two adjacent walls and a single strand chain-type fence. The area of this unit is approximate 30 feet by 60 feet. (See Photograph No. 3).

Date of Startup: It is estimated to be during the 1980s.

Date of Closure: The unit is active. It is intended to go through RCRA closure following approval of the closure plan, which has been submitted to IEPA.

Wastes Managed: Hazardous wastes have been stored in this area, but no records are available to indicate which specific wastes were stored (Caterpillar, 1992a). The unit could have managed waste refractory

coating (D001, F002, U226, nonhazardous), waste resins (D001, D002, F002, U122, nonhazardous), waste core catalyst (D001, D002, nonhazardous), waste janitorial products (D002, nonhazardous), unused cooling tower chemicals (D001, D002, nonhazardous), waste off-specification chemical (U226), and waste grease (D008, nonhazardous).

Release Controls: The unit is inside, on a concrete floor.

History of Documented Releases: No releases from this unit have been documented.

Observations: At the time of inspection, the unit contained approximately 70 drums of waste, all of which were stored on wooden skids. A brief examination of the area showed the drums containing waste grease (D008, nonhazardous), waste resin solutions (D001, D002, F002, U122, nonhazardous), waste janitorial products (D002, nonhazardous), and unused commercial pesticides. No visual signs of releases were observed.

SWMU 4

Waste Oil Sump Area

Unit Description: The Waste Oil Sump Area is located in Building V. It is a concrete pit where nonhazardous waste oil is obtained from changing oil in various vehicles. The opening appears to be 8 feet by 8 feet by 3 feet deep. The waste oil is pumped out of the sump into the recycler's truck and is transported to various waste oil recyclers. Waste oil (nonhazardous) is also generated from various types of machinery (see Photograph No. 4).

Date of Startup: It is estimated to be the early 1980s.

Date of Closure: The unit is active.

Wastes Managed: The unit manages nonhazardous waste oil.

Release Controls: The unit is indoors and constructed of concrete.

History of Documented Releases: No releases from this unit have been documented.

Observations: No visual signs of release were observed in the area of the sump.

SWMU 5

Hazardous Waste Drum Storage Area

Unit Description: The Hazardous Waste Drum Storage Area is in a separate enclosure located north of Building V. The enclosure is called Y-16. The enclosure consists of three walls and a metal roof with a cyclone-type fence on the fourth side. The enclosure occupies an area approximately 12 feet by 30 feet, on concrete. The concrete floor is encompassed by a curb about 4 inches high (see Photograph No. 5).

Date of Startup: It is estimated to be during the 1980s.

Date of Closure: The unit is active. It is intended to go through RCRA closure following approval of the closure plan, which has been submitted to IEPA.

Wastes Managed: Hazardous wastes have been stored in this area, but no records are available to indicate which specific wastes were stored (Caterpillar, 1992a). The unit could have managed waste refractory coating (D001, F002, U226, nonhazardous), waste resins (D001, D002, F002, U122, nonhazardous), waste core catalyst (D001, D002, nonhazardous), waste janitorial products (D002, nonhazardous),

unused cooling tower chemicals (D001, D002, nonhazardous), waste off-specification chemical (U226), and waste grease (D008, nonhazardous).

Release Controls: The unit is on a concrete slab with a 4-inch-high curb encompassing its perimeter.

History of Documented Releases: No releases from the unit have been documented.

Observations: The unit contained approximately 15 drums at the time of the VSI. No visual signs of release were observed.

SWMU 6 Facility Baghouse Dust Collectors

Unit Description: The Facility Baghouse Dust Collectors are an air pollution control system, used to control solid waste particulate emissions to the atmosphere in the facility's process areas. The baghouses are constructed of 10-gauge mild steel and the bags are made of polyester felt. The baghouses are located in three areas: Melting (30 units), Finishing (13 units), and 3500 Cell Area (5 units). The total capacity of the baghouses by area are Melting, 460,000 cubic feet per minute (cfm); Finishing, 485,000 cfm; and 3500 Cell Area, 125,000 cfm. The waste particulates captured in the collectors are discharged downward to hoppers at the bottom of each collector. The waste particulates are then discharged onto a conveyor system, which transports the waste particulates to a final storage hopper. The waste particulate collected in the hopper is then mixed with waste sand and water and taken to SWMU 1 (see Photograph No. 6).

Date of Startup: It is estimated to be 1978.

Date of Closure: The unit is active.

Wastes Managed: This unit manages dewatered sludge (nonhazardous).

Release Controls: The system is partially inside a building with a concrete floor. There were no other release controls observed.

History of Documented Releases: No releases from the unit have been documented.

Observations: The unit appeared sound and well kept. No visual signs of releases were observed.

SWMU 8 Former Hazardous Waste Drum Storage Marshalling Area

Unit Description: The Former Hazardous Waste Drum Storage Marshalling Area is located inside Building B, at the southwest corner alongside the west wall. The unit occupies an area of approximately 8 feet by 40 feet of concrete floor. This area is no longer in use. It was originally used as a temporary drum drop-off storage area before the drums were moved again to a more permanent storage area. Storage for one to two days is considered temporary storage by the Caterpillar personnel (see Photograph No. 10).

Date of Startup: It is estimated to be during the 1980s.

Date of Closure: The unit is inactive; it is unknown when it became inactive. It is intended to go through RCRA closure following approval of the closure plan, which has been submitted to IEPA.

Wastes Managed: The unit has stored waste off-specification chemical (U226) and waste resins (D001, D002, F002, U122, nonhazardous) (IEPA, 1985).

Other hazardous waste may have been stored in this area, but no records are available to indicate which specific wastes were stored (Caterpillar, 1992a). Other wastes may have included waste refractory coating (D001, F002, U226, nonhazardous), waste core catalyst (D001, D002, nonhazardous), waste janitorial products (D002, nonhazardous), unused cooling tower chemical (D001, D002, nonhazardous), and waste grease (D008, nonhazardous).

Release Controls: The unit is inside a building on a concrete floor.

History of Documented Releases: No releases from the unit have been documented.

Observations: There were no drums of waste in this area. No visual signs of release were observed.

SWMU 9 Waste Scrubber Liquor Tank

Unit Description: The Waste Scrubber Liquor Tank discharges waste triethylamine scrubber liquor through pipes, by gravity, from scrubbers located on the second floor to aboveground storage tanks located on the basement level. The tanks are indoors and on a concrete floor. The scrubber liquor is transferred from the storage tanks to a highway tanker truck by hauling it in a small, in-house (approximately 400-gallon) tanker. The waste liquor is then transported to Clean Harbors of Cleveland, Ohio for aqueous organic treatment (Caterpillar, 1992b).

Date of Startup: It is estimated to be during the late 1970s or early 1980s.

Date of Closure: The unit is active.

Wastes Managed:	This unit manages waste triethylamine scrubber liquor (D002, nonhazardous).
Release Controls:	No release controls were observed for this unit.
History of Documented Releases:	No releases from the unit have been documented.
Observations:	During the VSI, two triethylamine product USTs were represented as this unit. Information gained after the VSI determined the two USTs were misidentified (Caterpillar, 1992b). The room where this unit is located and the associated ASTs were not observed during the VSI.

SWMU 10

Phenolic Wastewater Storage Tank

Unit Description:	The Phenolic Wastewater Storage Tank was located outdoors, along the west wall of Building B. The unit stored nonhazardous phenolic wastewater that was generated during the core manufacturing process. According to a facility representative, this aboveground tank is believed to have had a capacity greater than 500 gallons and was constructed of steel. There was no concrete pad associated with this unit.
Date of Startup:	The unit began operations in the mid-1970s.
Date of Closure:	The unit was removed from the facility in the early 1980s.
Wastes Managed:	The unit managed phenolic wastewater. According to Illinois Disposal Permit No. 781475 issued to the facility, the phenolic wastewater was nonhazardous (Caterpillar, 1992d).
Release Controls:	The unit had no release controls.

**History of Documented
Release:**

According to a facility representative, some overflows occurred at this unit. Nonhazardous phenolic wastewater was released to the soil beneath and around the unit. Information regarding dates, amounts, and remedial actions associated with these releases was not available.

Observations:

The unit no longer exists at the facility. This SWMU was not identified until after the VSI; therefore, its location was not observed.

SWMU 11

Former PCB Storage Area

Unit Description:

The Former PCB Storage Area was located indoors, on the first floor of Building B, near the shipping area. According to the facility representative, the unit stored PCB waste exclusively. The area was approximately 15 feet by 20 feet and enclosed by fences and a concrete block wall. The unit was a curbed area on a concrete floor. PCB capacitors and other PCB items, such as used protective clothing, were stored in this area prior to shipment.

Date of Startup:

The unit began operations in approximately the early 1970s.

Date of Closure:

The unit became inactive during the mid-1980s. All contents of the unit were removed to the new PCB Storage Area (SWMU 12) and/or removed for disposal.

Wastes Managed:

The unit managed PCBs. All items were shipped off site for disposal by incineration or landfill.

Release Controls:

The unit was curbed and located on a concrete floor.

**History of Documented
Release:**

No releases from this unit have been documented.

Observations: This SWMU was not identified until after the VSI; therefore, its location was not observed.

SWMU 12

PCB Storage Area

Unit Description: The PCB Storage Area is located indoors, on the first floor, in the west end of the Building N transformer room. The unit is approximately 30 feet by 30 feet and located in an electrical transformer room with concrete block walls and a concrete floor. The unit stores PCB capacitors and other items, such as used protective clothing, on plastic sheeting, prior to off-site disposal. All PCBs are packed into drums or crates. According to the facility representative, only small amounts of PCB equipment remain in the plant, so there is minimal use of this area. This unit replaced the Former PCB Storage Area (SWMU 11).

Date of Startup: The unit began operations in the mid-1980s.

Date of Closure: The unit is active.

Wastes Managed: The unit manages PCBs prior to shipment off site for incineration. Intact capacitors may be stored in the area until packed. All PCB items are packed into drums or crates prior to disposal.

Release Controls: The unit has plastic sheeting protecting a concrete floor. The area is inspected monthly by facility personnel.

History of Documented Release: According to the facility representative, PCB fluid from a capacitor was cleaned from the floor of this unit. Post-cleanup sampling was conducted by the facility and according to the facility representative, the area was clean.

Observations: This SWMU was not identified until after the VSI; therefore, its location was not observed.

SWMU 13

Temporary PCB Storage Area

Unit Description: The Temporary PCB Storage Area was located indoors in Building D. During cleanup from a fire involving PCB capacitors, a temporary drum storage area was constructed. Wooded curbs and a security barrier surrounded an area of concrete floor that was covered with multiple layers of plastic and sealed with tape. The unit stored drums of PCBs and debris from the clean up of the fire. IEPA approved the cleanup of the PCB spill (IEPA, 1985).

Date of Startup: The unit began operations in the summer of 1984.

Date of Closure: The unit ceased operating in late 1984 or early 1985. All plastic and tape were removed and shipped off site for disposal. IEPA approved the cleanup of the PCB spill.

Wastes Managed: The unit managed PCBs, such as capacitors, used absorbent, protective clothing, and fire debris. All material was shipped off site for disposal by incineration.

Release Controls: The unit had layers of plastic sheeting, sealed with tape, covering wooden curbs and a concrete floor.

History of Documented Release: No releases have been documented for this unit.

Observations: This SWMU was not identified until after the VSI; therefore, its location was not observed.

4.0 AREAS OF CONCERN

RAI identified four AOCs during the PA/VSI. These are discussed below and their locations are shown on Figure 3.

AOC 1

Aboveground Storage Tank Split-Pipeline Leak Area

On December 1, 1982, there was a gasoline pipeline leak. This area is located immediately south of Building B. The leak occurred from a split in a pipe that fed gasoline from an AST into pumps for vehicles. The line was shut off. The exact volume of the spill is not known. The leak was reported to NRC on December 1, 1982. According to a facility representative, sampling and any necessary removal and proper disposal of soil is scheduled for the near future (Caterpillar, 1992a). Until remediation is completed and approved by IEPA, the spill is considered an AOC.

AOC 2

Sulfuric Acid Leak Area

On November 6, 1990, there was a sulfuric acid leak from an acid feed line for the wastewater treatment plant, outdoors of Building RR. The leak was reported to NRC on the November 7, 1990. The leak had contaminated soil in the immediate area. The maximum amount of sulfuric acid released was 2,420 pounds. Twenty-two 85-gallon drums of contaminated material were removed by Caterpillar personnel and shipped out (Caterpillar, 1993a). There is no documentation of (1) where the soil was removed, (2) sampling results to confirm that no contamination exists, or (3) IEPA approval; therefore this spill area is considered an AOC (see Photograph No. 11).

AOC 3**Abandoned Aboveground Storage Tank Leak Area**

In mid-January 1992, Caterpillar detected a gasoline leak in what appeared to be an abandoned AST. This incident occurred just before RAI conducted the VSI and minimal information is available regarding the leak. Based on some tests performed on site, some contamination was detected. The nature of the tests is not known. It is understood that Caterpillar intends to perform further testing and to remediate as required. The incident was reported to the Illinois Emergency Service and Disaster Agency (IESDA) who then notified IEPA about the release. No further information was given to RAI regarding this release (Caterpillar, 1992c).

AOC 4**Diesel Fuel Truck Saddle Tank Spill Area**

On December 19, 1991, a truck (not belonging to Caterpillar) had an accident at the Caterpillar facility. As a result of the accident, a diesel fuel saddle tank was ripped away from the truck causing a diesel fuel spill which contaminated the soil in that area. The owner of the truck contracted a spill response company to clean up the area. Some contaminated soil was removed and disposed of by the spill response company. There is no documentation of sampling or where the contaminated soil was shipped (Caterpillar, 1992a).

5.0 CONCLUSIONS AND RECOMMENDATIONS

The PA/VSI identified 13 SWMUs and four AOCs at the facility. Background information on the facility's location, operations, waste generating processes, history of documented releases, regulatory history, environmental setting, and receptors is presented in Section 2.0. SWMU-specific information, such as the unit's description, dates of operation, wastes managed, release controls, history of documented releases, and observed condition, is discussed in Section 3.0. AOCs are discussed in Section 4.0. Following are RAI's conclusions and recommendations for each SWMU and AOC. Table 3 identifies the SWMUs and AOCs at the Caterpillar facility and recommended further actions.

SWMU 1

Waste Sand Landfill Area

Conclusions:

The unit is currently operational and is permitted by the State of Illinois as a Solid Waste Disposal Site. The unit manages waste sand and dust. Caterpillar claims that this waste is nonhazardous (Caterpillar, 1992b). IEPA claims that the waste is a nonhazardous special waste (IEPA, 1988b, 1989). Hazardous constituent analyses for this waste and a copy of the current special waste disposal permit application were not provided by Caterpillar. This unit has monitoring wells which were installed in 1991 and 1992 (Caterpillar, 1993a). This unit has no liner. According to the facility representative, monitoring well data are submitted quarterly to IEPA and no ground water contamination has been identified (Caterpillar, 1993b). The potential for release of hazardous constituents to ground water, surface water, air, or on-site soils from this unit is unknown because the hazardous constituent content in the waste disposed in this unit is unknown.

Recommendations:

RAI recommends soil sampling to determine if hazardous constituent contamination does exist at this unit. If contamination is found, ground water monitoring should continue and the contamination

TABLE 3
SWMU AND AOC SUMMARY

<u>SWMU</u>	<u>Dates of Operation</u>	<u>Evidence of Release</u>	<u>Recommended Further Action</u>
1. Waste Sand Landfill Area	Mid-1970s to present	None	Perform soil sampling to determine if hazardous constituent contamination exists. If so, remediation of the contamination and continued ground water monitoring is recommended. Perform hazardous constituent analyses on waste sand and dust.
2. Former Hazardous Waste Drum Storage Area	1980s to unknown	None	Complete RCRA closure as planned.
3. Indoor Hazardous Waste Drum Storage Area	1980s (estimated) to present	None	Complete RCRA closure as planned.
4. Waste Oil Sump Area	Early 1980s to present	None	No further action is recommended at this time.
5. Hazardous Waste Drum Storage Area	1980s (estimated) to present	None	Complete RCRA closure as planned.
6. Facility Baghouse Dust Collectors	1978 (estimated) to present	None	Perform waste analysis of waste dust to determine if hazardous. If so, sampling may be necessary of all environmental media.

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TABLE 3 (continued)

SWMU AND AOC SUMMARY

<u>SWMU</u>	<u>Dates of Operation</u>	<u>Evidence of Release</u>	<u>Recommended Further Action</u>
7. Wastewater Treatment System	Early 1990s to present	None	No further action is recommended at this time.
8. Former Hazardous Waste Drum Storage Marshalling Area	1980s (estimated) to unknown	None	Complete RCRA closure as planned.
9. Waste Scrubber Liquor Tank	Late 1970s or early 1980s (estimated) to present	None	No further action is recommended at this time.
10. Phenolic Wastewater Storage Tank	Mid-1970s to early 1980s	According to the facility representative, overflows to soil occurred at this time.	Soil sampling should be conducted to determine if contamination from previous releases occurred.
11. Former PCB Storage Area	Early 1970s to mid-1980s	None.	No further action is recommended at this time.
12. PCB Storage Area	Mid-1980s to present	PCB capacitor fluid to floor.	No further action is recommended at this time.
13. Temporary PCB Storage Area	Summer 1984 to early 1985	None.	No further action is recommended at this time.

RELEASED
DATE 6/2/90
RIN #
INITIALS MT

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TABLE 3 (continued)

SWMU AND AOC SUMMARY

<u>AOC</u>	<u>Dates of Operation</u>	<u>Evidence of Release</u>	<u>Recommended Further Action</u>
1. Aboveground Storage Tank Split-Pipeline Leak Area	1982 to present	AST Gasoline Leak December 1, 1982	Soil testing and tank integrity testing; remediation if necessary.
2. Sulfuric Acid Leak Area	1990 to present	Sulfuric Acid Leak November 6, 1990	Soil testing and remediation if necessary.
3. Abandoned Aboveground Storage Tank Leak Area	Mid-January 1992 to present	AST Gasoline Leak, January 1992	Soil testing and tank integrity testing; remediation if necessary.
4. Diesel Fuel Truck Saddle Tank Spill Area	One-time spill 1991	Broken Saddle Tank on Truck December 1991	Soil testing and remediation if necessary.

RELEASED
DATE 6/29/00
RIN #
INITIALS UV

should be remediated. RAI also recommends that hazardous constituent analyses be performed on the waste sand and dust.

SWMU 2

Former Hazardous Waste Drum Storage Area

Conclusions:

The unit is no longer active. Hazardous waste was originally stored on gravel-covered ground which is surrounded by an 8-foot fence. This unit is intended to go through formal RCRA closure following approval of the closure plan, which has been submitted to IEPA. The potential for future release of hazardous constituents to ground water, surface water, air, or on-site soils is low. The past potential for release of hazardous constituents to on-site soils was low to moderate because the soil was unprotected, although there has been no history of documented releases. The past potential for release of hazardous constituents to ground water, surface water, or air is low because the waste was stored in drums and if there was a spill it would be small in quantity.

Recommendations:

RAI recommends the facility complete RCRA closure as planned.

SWMU 3

Indoor Hazardous Waste Drum Storage Area

Conclusions:

This unit is active and stores drums containing hazardous wastes. The waste is stored indoors, on a concrete floor. No documented releases from this unit have occurred. This unit is intended to go through formal RCRA closure following approval of the closure plan, which has been submitted to IEPA. The potential for release of hazardous constituents to ground water, surface water, air, or on-site soils from this unit is low.

Recommendations:

RAI recommends the facility complete RCRA closure as planned.

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SWMU 4

Waste Oil Sump Area

Conclusions:

This unit is located indoors and the area is constructed of concrete. No documented releases from this unit have occurred. The potential for release of hazardous constituents to ground water, surface water, air, or on-site soil is low.

Recommendations:

RAI recommends no further action for this unit.

SWMU 5

Hazardous Waste Drum Storage Area

Conclusions:

This unit is outdoors and consists of a concrete floor with a 4-inch-high curb around its perimeter. Three walls and the roof are made of metal and the fourth side is a cyclone-type fence. No documented releases from this unit have occurred. This unit is intended to go through formal RCRA closure following approval of the closure plan, which has been submitted to IEPA. The potential for release of hazardous constituents to ground water, surface water, air, or on-site soils from this unit is low.

Recommendations:

RAI recommends the facility complete RCRA closure as planned.

SWMU 6

Facility Baghouse Dust Collectors

Conclusions:

The dust collected from this unit is discharged into a storage hopper where it is mixed with sand and water and transported to SWMU 1. No documented releases from this unit have occurred. The potential for release of hazardous constituents to ground water, surface water, air, or on-site soils from this unit is moderate to high since the waste designation is unknown and no release controls were observed.

RELEASED
DATE 6/29/00
RIN #
INITIALS MV

Recommendations: RAI recommends that the waste be sampled for hazardous constituents. If the waste is determined to be hazardous, sampling at this unit for all environmental media may be necessary.

SWMU 7 Wastewater Treatment System

Conclusions: This system cleans mill water from the foundry process and sanitary sources, and discharges the effluent into the Illinois River. The treatment system is located inside a building with concrete floors and pit walls. No documented releases from this unit have occurred. The potential for release of hazardous constituents to ground water, surface water, air or on-site soils from this unit is low.

Recommendations: RAI recommends no further action for this unit.

SWMU 8 Former Hazardous Waste Drum Storage Marshalling Area

Conclusions: This unit is no longer active. Hazardous waste was originally stored indoors, on a concrete floor. No documented releases from this unit have occurred. This unit is intended to go through formal RCRA closure following approval of the closure plan, which has been submitted to IEPA. The potential for release of hazardous constituents to ground water, surface water, air, and on-site soils from this unit is low.

Recommendations: RAI recommends the facility complete RCRA closure as planned.

SWMU 9 Waste Scrubber Liquor Tank

Conclusions: The waste triethylamine scrubber liquor (D002, nonhazardous) flows through pipes, by gravity, from scrubbers located on the second floor to aboveground storage tanks located on the first floor (basement

level). The tanks are indoors and on a concrete floor. The potential for release of hazardous constituents to ground water, air, surface water, or on-site soils from this unit is low. The scrubber liquor is transferred from the storage tanks to the highway tanker truck by hauling it in a small, in-house (approximately 400 gallon) tanker.

Recommendations: RAI recommends no further action for this unit.

SWMU 10 Phenolic Wastewater Storage Tank

Conclusions: This unit stored phenolic wastewater prior to on-site biological treatment. Overflows to exposed soil occurred at the unit. The unit was removed from the facility in the early 1980s. The current potential for release of hazardous constituents to ground water, surface water, air and on-site soils is low or nonexistent.

Recommendations: Soil sampling should be conducted to determine if contamination from the previous releases has occurred.

SWMU 11 Former PCB Storage Area

Conclusions: The unit is indoors and on a curbed concrete floor in Building B. All PCBs were stored either in intact capacitors or in drums or crates. Therefore the past potential for a release to environmental media was probably low. The area was cleaned after its use. The potential for release of hazardous constituents to ground water, air, surface water, or on-site soils from this unit is low because the unit is no longer in use and no releases were documented.

Recommendations: RAI recommends no further action for this unit.

RELEASED
DATE 8/29/02
RIN #
INITIALS

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SWMU 12

PCB Storage Area

Conclusions:

The unit is located indoors on a plastic-covered concrete floor in Building N. Any item which might release PCBs is immediately placed in a drum. Therefore, the potential for release of hazardous constituents to ground water, air, surface water, or on-site soils from this unit is low.

Recommendations:

RAI recommends no further action for this unit.

SWMU 13

Temporary PCB Storage Area

Conclusions:

The unit is located indoors. During its temporary use for storing cleanup debris following a capacitor fire, drums were managed on a plastic-covered, curbed concrete floor. No releases were documented for this unit and IEPA approved the cleanup. Therefore, the past potential for a release to environmental media was probably low. The unit is no longer in use and the plastic floor covering was shipped off site for disposal. Therefore, the potential for release of hazardous constituents to ground water, air, surface water, or on-site soils from this unit is low.

Recommendations:

RAI recommends no further action for this unit.

AOC 1

Aboveground Storage Tank Split-Pipeline Leak Area

Conclusions:

The leak occurred from a split in a pipe that fed gasoline from an AST into the vehicles. The split in the pipe occurred about 10 inches below grade, below the AST, releasing gasoline to the on-site soils. The potential for release of hazardous constituents to surface water and air is low because the split pipe is considered a one-time incident. The potential for release of hazardous constituents to ground water is

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DATE 6/10
RIN # WV
INITIALS WV

moderate. According to the facility representative, a consultant has been hired to assist with the cleanup of AOC 1. Sampling and any necessary removal and disposal of soil is scheduled for the near future (Caterpillar, 1993b).

Recommendations:

The soil surrounding the spill area should be tested for contamination. If soil contamination is discovered, the ground water should be tested for contamination. In addition, the tank integrity should be investigated. Remediation of the area should be performed if necessary.

AOC 2

Sulfuric Acid Leak Area

Conclusions:

The leak occurred outdoors, and had contaminated an area outside Building RR. The area was cleaned up by Caterpillar personnel, but there is no documentation of the cleanup procedures. The potential for releases of hazardous constituents to ground water, surface water, air, or on-site soils is low because this was an unusual incident and maintenance discipline should eliminate recurrence of the problem.

Recommendations:

The soil in this area should be tested for contamination. Remediation of the area should be performed if necessary.

AOC 3

Abandoned Aboveground Storage Tank Leak Area

Conclusions:

This leak occurred approximately one week before RAI conducted the VSI, and the information available was minimal. A gasoline leak was detected in what appeared to be an abandoned aboveground storage tank. Based on preliminary tests, contamination of the soil was detected. Further tests and remediation will be performed as required. Not knowing what was done to stop the leak or to prevent the leak from recurring, it seems apparent that the potential for future releases

to soil is moderate to high. The potential for release to ground water is moderate because contaminants in the soil may leach to the ground water. The potential for releases to air and surface water is low because the tanks are aboveground and over 700 feet from the nearest surface water.

Recommendations:

The soil surrounding the tank should be tested for contamination. In addition, the tank's integrity should be investigated. Remediation of the area should be performed if necessary.

AOC 4

Diesel Fuel Truck Saddle Tank Spill Area

Conclusions:

The spill occurred when a diesel fuel saddle tank was accidentally ripped away from a truck. The spill contaminated the soil next to the roadway. Some contaminated soil was removed and disposed of by an outside spill response company. The potential for release to surface water or air is low or nonexistent due to the nature of the waste and the distance to surface water. The potential for release to ground water is moderate because there was no evidence of sampling results.

Recommendations:

The soil in this area should be tested for contamination. Remediation of the area should be performed if necessary.

RELEASED

DATE 6/29/02

RIN #

INITIALS WV

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- Caterpillar, 1988. Part of general correspondence and attached to this reference letter with a RCRA permit form, November 7.
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- Caterpillar, 1990. National Pollutant Discharge Elimination System (NPDES), 1990. Permit to discharge into waters of the State of Illinois, April 10.
- Caterpillar, 1991. Application for State Construction Permit for addition of sand filter chlorination, June 19.
- Caterpillar, 1992a. FAX information received from Carey French (Caterpillar) in answer to questions she received from Arthur Marshall (RAI) on January 27, 1992, mainly pertaining to SWMUs, spills and environmental receptors, January 30.
- Caterpillar, 1992b. FAX information received from Carey French (Caterpillar) on questions asked during VSI. FAX includes waste records for 1988, 1989, and 1990, February 12.
- Caterpillar, 1992c. Phone conversation between Scott Tajak (RAI) and Carey French (Caterpillar) in reference to a recent gasoline leak, February 25.
- Caterpillar, 1992d. Phone conversation between Scott Tajak (RAI) and Carey French (Caterpillar) in reference to RAI obtaining information about the volume of spills and the amount of soil remediated. This information was received by FAX from Caterpillar, March 31.
- Caterpillar, 1992e. Fax information received by Peter McLaughlin (RAI) from Carey French (Caterpillar), June 15.
- Caterpillar, 1993a. Phone conversation between Jeff Indeck (RAI) and Carey French (Caterpillar) in reference to RAI obtaining information about the PA/VSI report. Additional information was received by FAX from Caterpillar, April 21.

- Caterpillar, 1993b. Phone conversation between Jeff Indeck (RAI) and Carey French (Caterpillar) in reference to RAI obtaining information about the PA/VSI report. Additional information was received by FAX from Caterpillar, June 3.
- Federal Emergency Management Agency (FEMA), 1983. National Flood Insurance Program, Stark County, Illinois.
- Illinois Environmental Protection Agency (IEPA), 1985. Letter of PCB cleanup approval to Carey French of Caterpillar Inc, May 6.
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- IEPA, 1989. Inspection report, July 27.
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- U.S. Department of Agriculture (USDA), 1992. Phone conversation with John Hubbert (with County Soil and Water Conservation), February 7.
- U.S. Geological Survey (USGS), 1979. Spring Bay Quadrangle, Illinois, 7.5 Minute Topographic Series.

ATTACHMENT A

EPA PRELIMINARY ASSESSMENT FORM 2070-12



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE IL 02 SITE NUMBER ILD 052 664 364

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)
Caterpillar Inc.

02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
8826 W. Route 24

03 CITY
Mapleton

04 STATE IL 05 ZIP CODE 61547 06 COUNTY Peoria 07 COUNTY CODE 08 CONG DIST

09 COORDINATES: LATITUDE 40 33 035.N LONGITUDE 89 44 008.W

10 DIRECTIONS TO SITE (Starting from nearest public road)

The facility is located on Route 24 approximately 7 miles south of Bartonville and 4 miles south of Route 9.

III. RESPONSIBLE PARTIES

01 OWNER (If known)
Caterpillar, Inc.

02 STREET (Business, mailing, residential)
100 N.E. Adams

03 CITY
Peoria

04 STATE IL 05 ZIP CODE 61629 06 TELEPHONE NUMBER (309) 675-1000

07 OPERATOR (If known and different from owner)
Caterpillar, Inc.

08 STREET (Business, mailing, residential)
8826 W. Route 24

09 CITY
Mapleton

10 STATE IL 11 ZIP CODE 61547 12 TELEPHONE NUMBER (309) 833-8601

13 TYPE OF OWNERSHIP (Check one)

- ☒ A. PRIVATE ☐ B. FEDERAL: (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

- ☒ A. RCRA 3010 DATE RECEIVED: 08 / 18 / 80 ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: / / ☐ C. NONE
MONTH DAY YEAR MONTH DAY YEAR

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION

BY (Check all that apply)

- ☒ YES DATE 01 / 22 / 92 ☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☐ D. OTHER CONTRACTOR
☐ NO ☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: (Specify)

CONTRACTOR NAME(S): Resource Applications, Inc.

02 SITE STATUS (Check one)

- ☒ A. ACTIVE ☐ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION

1967 Present
BEGINNING YEAR ENDING YEAR ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Waste Refractory Coating (D001, F002, U226, nonhazardous), Waste Resins (D001, D002, F002, U122, nonhazardous), Waste Core Catalyst (D001, D002, nonhazardous), Waste Janitorial Products (D002, nonhazardous), Unused Cooling Tower Chemicals (D001, D002, nonhazardous), Waste Off-Specification Chemical (U226), Waste Triethylenamine Scrubber Liquor (D001, nonhazardous), Waste Grease (D008).

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

The potential for a hazardous release to the environment from SWMUs 2 through 5 and 7 through 13 is low, since the waste is stored indoors on concrete and/or in drums on concrete pads with curbs. All releases during the process are collected by baghouses for dust (particulates) and special wet scrubbers for fumes. Wastes stored in SWMUs 1 and 6 have not been designated as hazardous or nonhazardous; hence, potential for release to environmental media is unknown from these units.

- AOC 1 The past potential for releases of hazardous constituent to surface water and air is low and to ground water is moderate to high.
AOC 2 The potential for release of hazardous constituents to ground water, surface water, air, or on-site soils is low.
AOC 3 The potential for release of hazardous constituents to air and surface water is low. The potential for release to ground water is moderate.
AOC 4 The potential for release of hazardous constituents to air and surface water is low. The potential for release to ground water is moderate.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents.)

- ☐ A. HIGH ☒ B. MEDIUM ☐ C. LOW ☐ D. NONE
(Inspection required promptly) (Inspection required) (Inspect on time-available basis) (No further action needed; complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT

Kevin Pierard

02 OF (Agency/Organization)

EPA Region V

03 TELEPHONE NUMBER
(312) 836-4448

04 PERSON RESPONSIBLE FOR ASSESSMENT
Arthur Marshalla

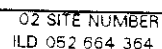
05 AGENCY

06 ORGANIZATION

Resource Applications, Inc.

07 TELEPHONE NUMBER
(312) 332-2230

08 DATE
01 / 22 / 92
MONTH DAY YEAR



☐ A. TOXIC
☐ B. CORROSIVE
☐ C. RADIOACTIVE
☐ D. PERSISTENT
☐ E. SOLUBLE
☐ F. INFECTIOUS
☐ G. FLAMMABLE
☐ H. IGNITABLE
☒ I. HIGHLY VOLATILE
☐ J. EXPLOSIVE
☐ K. REACTIVE
☐ L. INCOMPATIBLE
☐ M. NOT APPLICABLE

EPA FORM 2070-12(7-81)



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND
INCIDENTS

I. IDENTIFICATION

01 STATE
IL

02 SITE NUMBER
HD 052 664 364

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

None identified.

01 ☐ B. SURFACE WATER CONTAMINATION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

None identified.

01 ☐ C. CONTAMINATION OF AIR

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

None identified.

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

None identified.

01 ☐ E. DIRECT CONTACT

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

None identified.

01 ☐ F. CONTAMINATION OF SOIL

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

03 AREA POTENTIALLY AFFECTED: Unknown
(Acres)

04 NARRATIVE DESCRIPTION

Based on the four AOCs, further tests are recommended to determine if contamination exists and what areas it covers.

01 ☐ G. DRINKING WATER CONTAMINATION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

None identified.

01 ☐ H. WORKER EXPOSURE/INJURY

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

03 WORKERS POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

None identified.

01 ☐ I. POPULATION EXPOSURE/INJURY

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

None identified.



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND
INCIDENTS

I. IDENTIFICATION

01 STATE IL	02 SITE NUMBER ILD 052 664 364
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II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

None identified.

01 ☐ K. DAMAGE TO FAUNA

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION (Include name(s) of species)

None identified.

01 ☐ L. CONTAMINATION OF FOOD CHAIN

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

None identified.

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

None Identified.

01 ☐ N. DAMAGE TO OFF-SITE PROPERTY

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

None identified.

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPS ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

None Identified.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

None identified.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

None identified.

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

Based on the four AOCs it seems appropriate to conduct further soil tests to determine the extent of contamination.

V. SOURCES OF INFORMATION (Cite specific references; e.g., state files, sample analysis, reports)

Visual Site Inspection, January 22, 1992.

ATTACHMENT B

VISUAL SITE INSPECTION SUMMARY AND PHOTOGRAPHS

VISUAL SITE INSPECTION SUMMARY

Caterpillar Inc.
Mapleton, Illinois
ILD 052 664 364

Date: January 22, 1992

Facility Representatives: Robert Kilgo, Corporate, Environmental Dept.
Carey French, Staff Engineer/Facilities Engineering
William E. Schulze, Jr., Utilities Engineering Superintendent

Inspection Team: Arthur Marshalla, Resource Applications, Inc. (RAI)
Scott Tajak, RAI

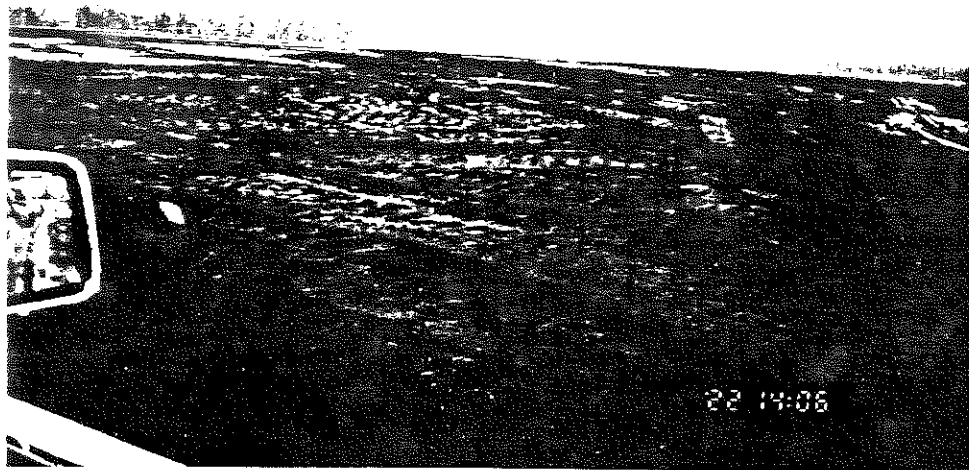
Photographer: Scott Tajak

Weather Conditions: Rainy, temperature about 40°F

Summary of Activities: The visual site inspection (VSI) began at 9:00 a.m. with an introductory meeting. The inspection team discussed the purpose of the VSI and the agenda for the visit. Facility representatives then discussed Caterpillar's past and current operations, solid wastes generated, and release history. Most of the information was exchanged on a question-and-answer basis.

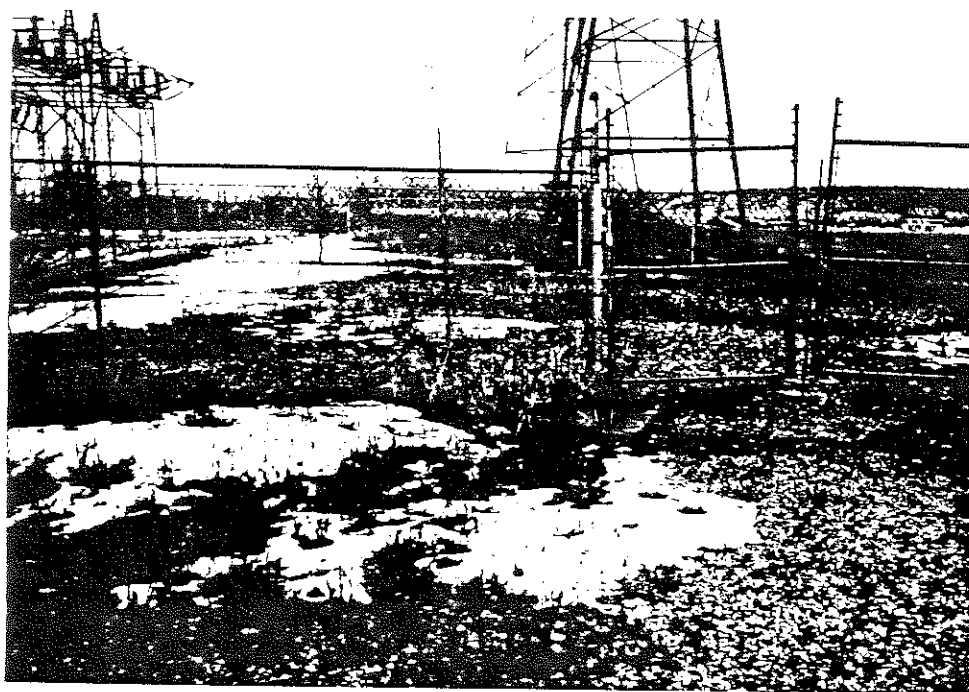
The VSI tour began at 1:00 p.m. Mr. William E. Schulze, Jr. discussed specific operations at each area as we walked through the production areas. The inspection began inside at the main plant (Building D). We walked through the entire production line from the core making area, to the molding area (including machining and tooling) to the gray iron melting and pouring area, and finally to the finishing area. In addition to the above mentioned standard production line, there is also a special molding line for cylinder liners. The SWMUs observed during the inspection were clean and well maintained.

The tour was concluded at 3:30 p.m. after which the inspection team held a brief exit meeting with Caterpillar representatives. The VSI was completed and the inspection team left the facility at 4:00 p.m.



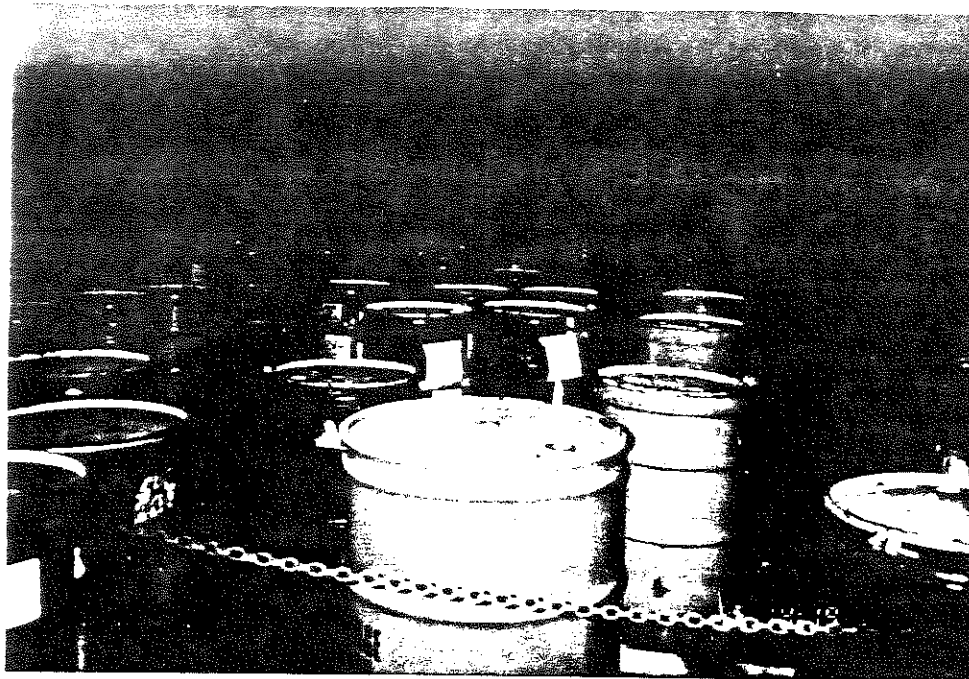
Photograph No. 1
 Orientation: Southwest
 Description: Waste Sand Landfill Area.

Location: SWMU 1
 Date: 1/22/92



Photograph No. 2
 Orientation: East
 Description: South portion of the fenced-in area of Former Hazardous Waste Drum Storage Area.

Location: SWMU 2
 Date: 1/22/92



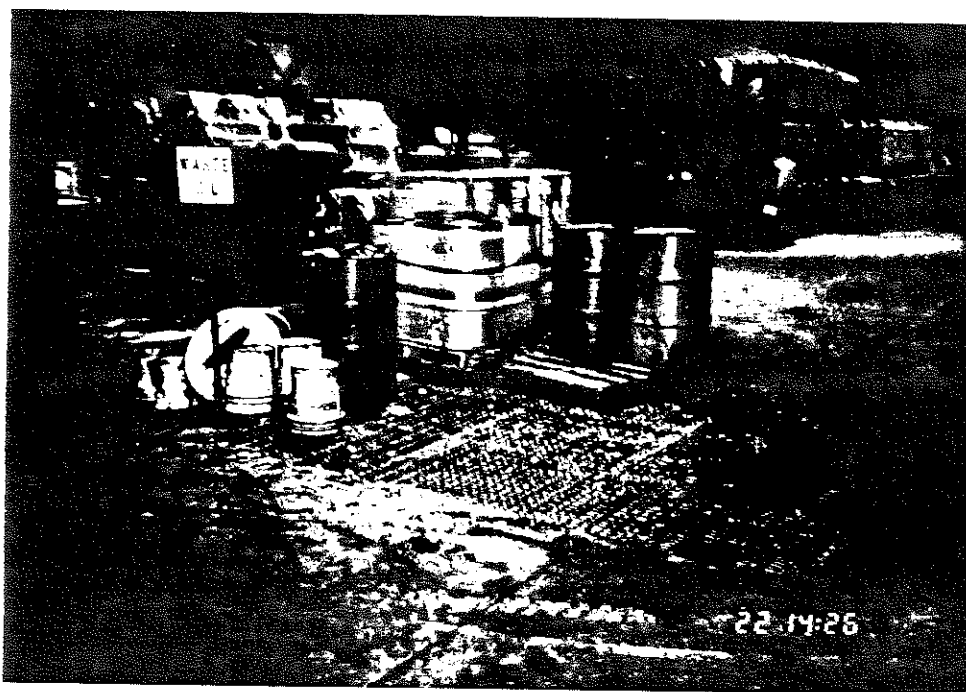
Photograph No. 3

Orientation: South

Description: Chained-in Indoor Hazardous Waste Drum Storage Area.

Location: SWMU 3

Date: 1/22/92



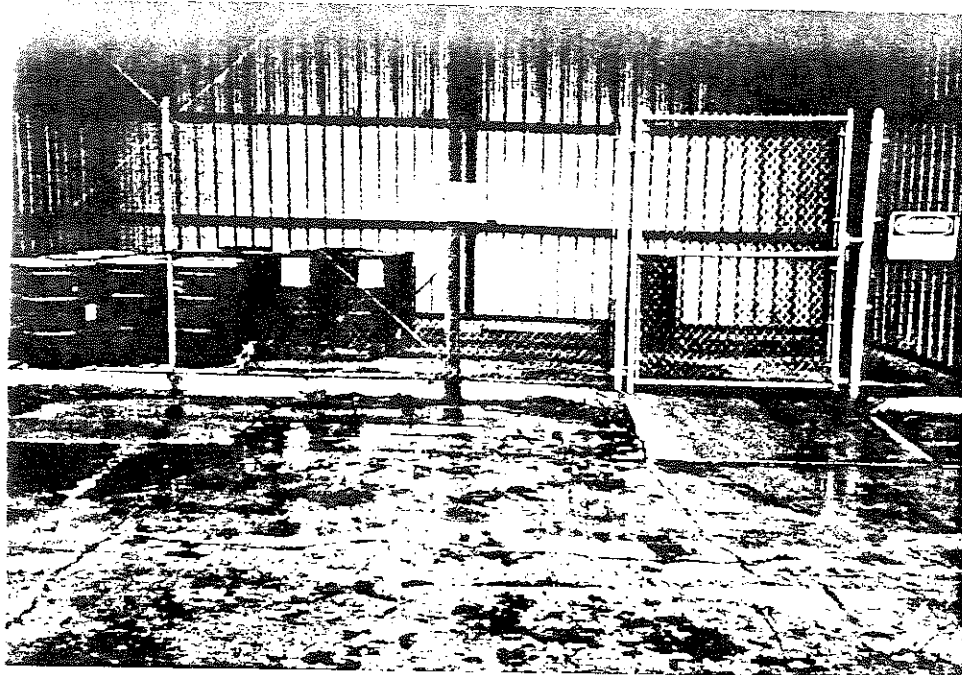
Photograph No. 4

Orientation: West

Description: Waste Oil Sump Area showing floor grating over sump area.

Location: SWMU 4

Date: 1/22/92



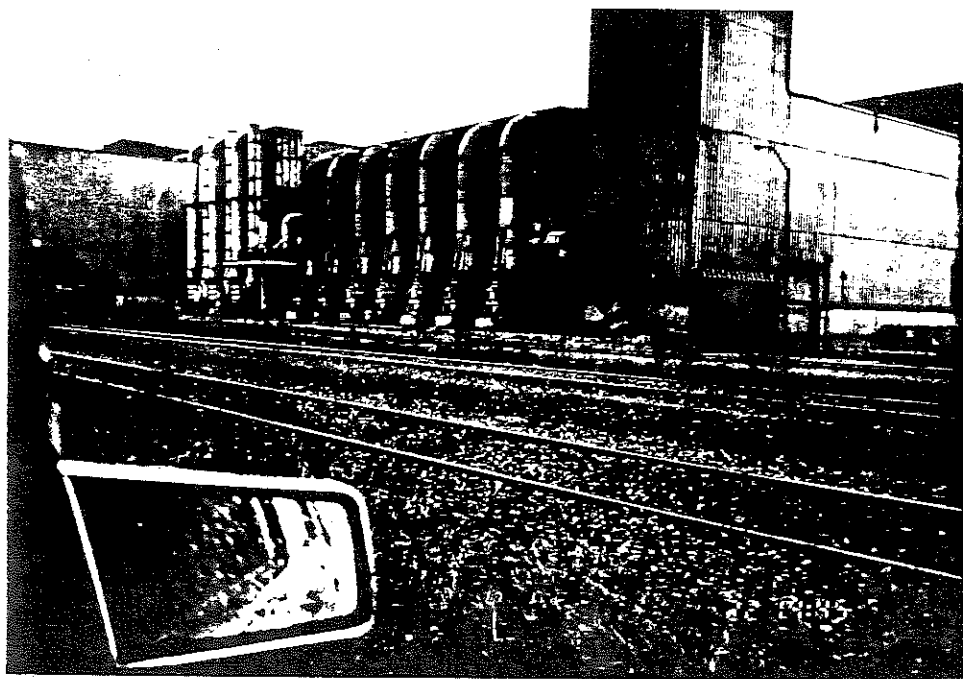
Photograph No. 5

Orientation: South

Location: SWMU 5

Date: 1/22/92

Description: Hazardous Waste Drum Storage Area showing three-sided enclosure with fenced-in front and concrete pad with curbs.



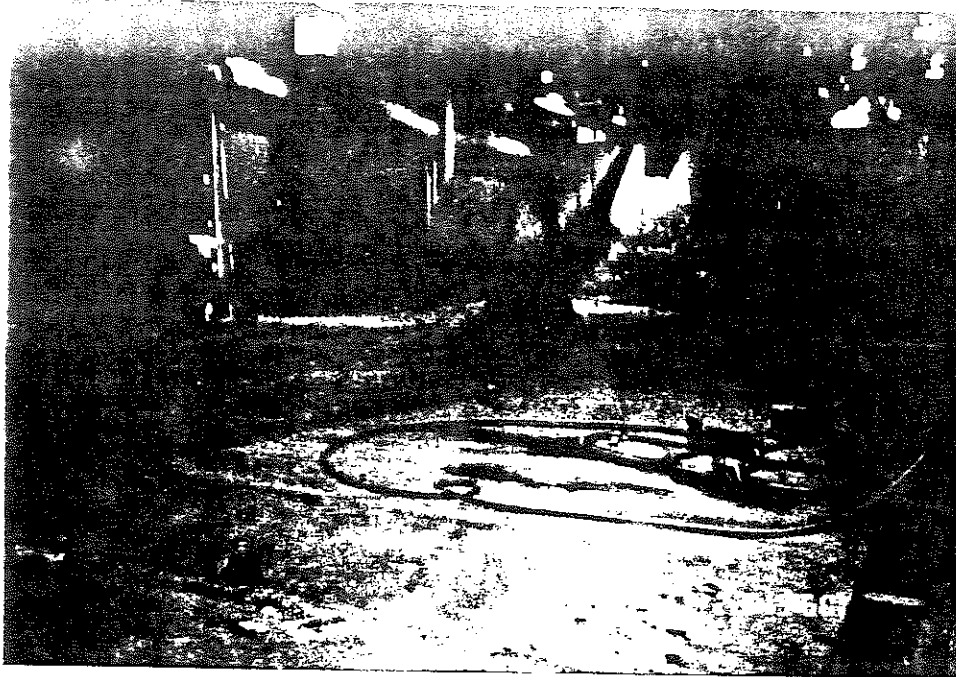
Photograph No. 6

Orientation: Northwest

Location: SWMU 6

Date: 1/22/92

Description: Facility Baghouse Dust Collectors on south wall of Building B.



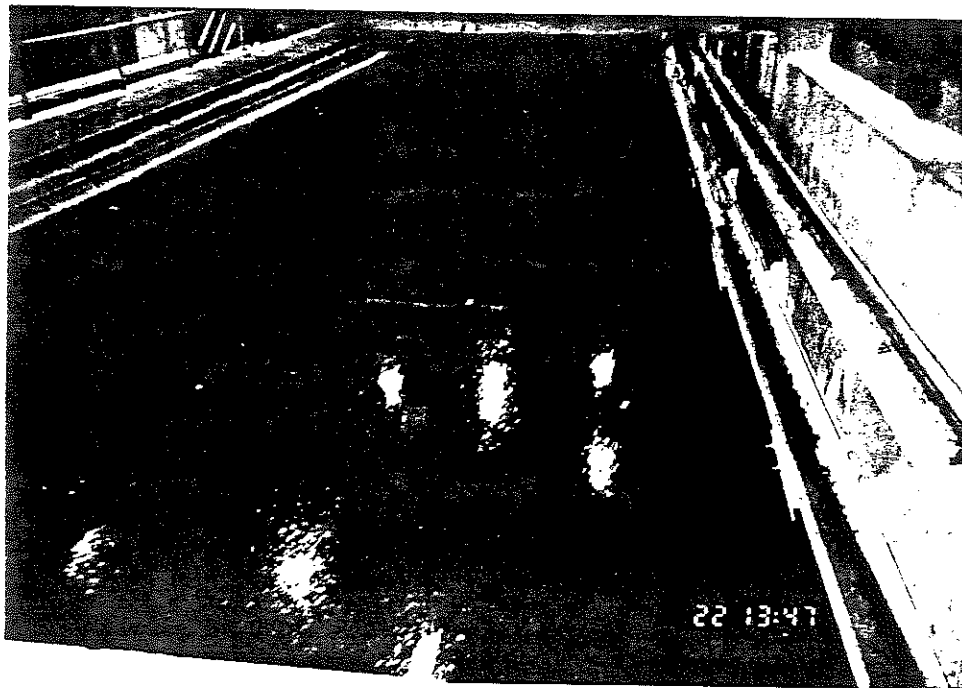
Photograph No. 7

Orientation: Southeast

Description: Wastewater Treatment System, sludge bay area.

Location: SWMU 7

Date: 1/22/92



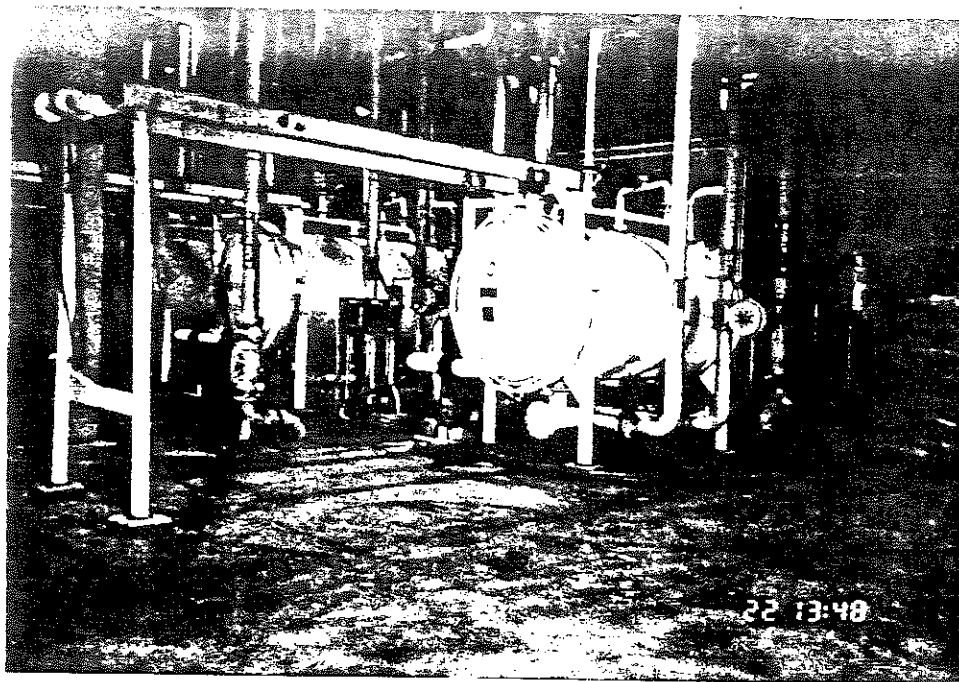
Photograph No. 8

Orientation: Southeast

Description: Wastewater Treatment System, sand filter area.

Location: SWMU 7

Date: 1/22/92



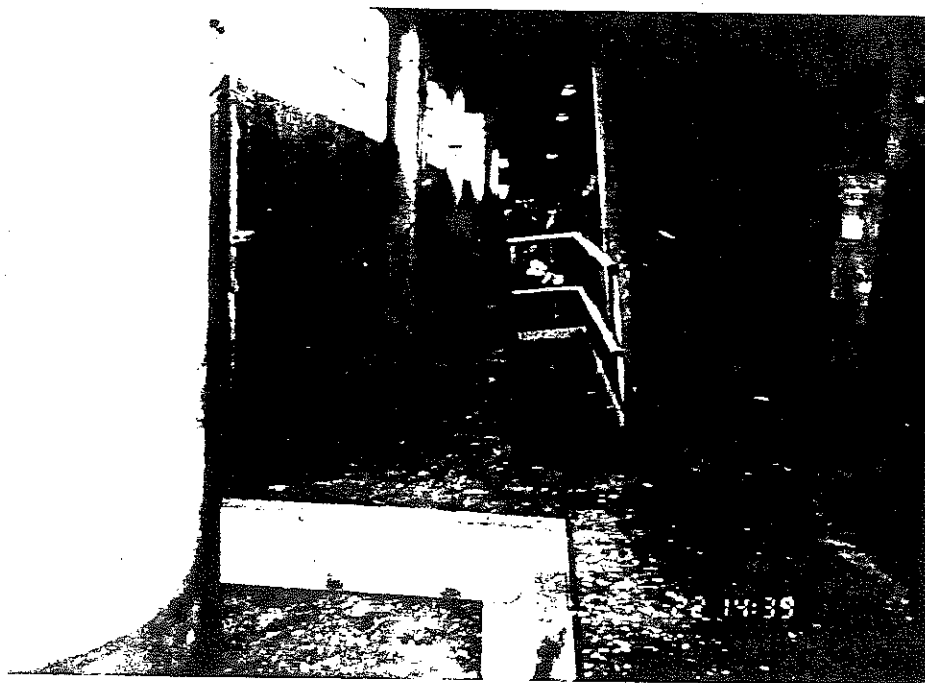
Photograph No. 9

Orientation: Northwest

Description: Wastewater Treatment System, carbon filter area.

Location: SWMU 7

Date: 1/22/92



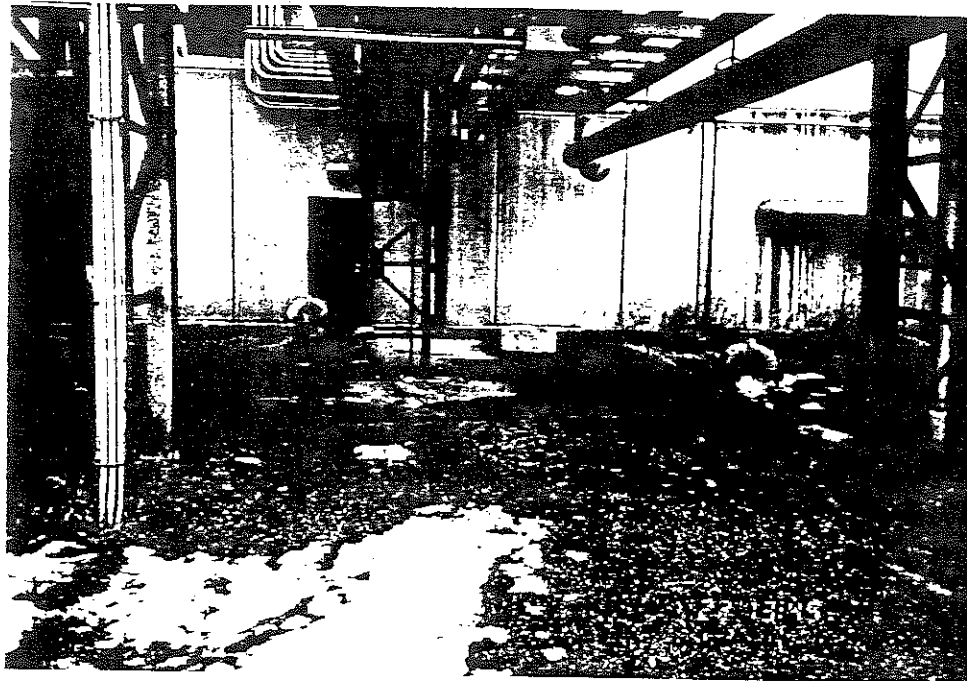
Photograph No. 10

Orientation: North

Description: Former Hazardous Waste Drum Storage Marshalling Area along side the northern wall in Building B.

Location: SWMU 8

Date: 1/22/92



Photograph No.11

Orientation: East

Description: Location of Sulfuric Acid Leak.

Location: AOC 2

Date: 1/22/92

ATTACHMENT C

VISUAL SITE INSPECTION FIELD NOTES

Casting Parts

- SAND AS Forming media

several types

Green sand - silica

sea coal
bentonite

} outside of casting

mold - internal mold -

cured with gas

polymerized

rigidity - bond between water, sand, and air

mold - is the outside passage

core - forms inside passage

Facility makes molds and cores as well as product

Only pour grey iron

alloyed grey iron

↳ nickel

↳ molybdenum?

↳ copper

Cast iron is main product

engine - cylinder, liner, cam shaft etc.

OEM personnel

880,000 ft²

4 major areas of a foundry

* A) Core
2 floors

incoming raw material

- 1) lake sand
- 2) silica sand
- 3) silicon + specially

truck unloaded on conveyor

stored in silos

out of silos

mixed sand and resin

distributed to 2nd floor to hoppers

sand is now wettable mix

shapes formed

blow sand into cavity of box

then it is cured over a gas or heat

core placed

place refractory coating

sea coal

limestone

fills voids provides binder for
metal and sand seal.

liquid coating

dipped - water based

heated/dried

ST

Cores - some are air dried.

First floor - series of core machines
they make 50-60 different parts

Smaller engines assembly in this area.

come off in racks or preassembling into another core
called a capsule or assembly.

One casting ~~may~~ may take several different
casting

* (B) Molding Area

- 3 large Mold lines
 - a) blocks
 - b) cylinder head
 - c) cylinder liners

(1. Pattern shop

→ machine shop.

tooling

core boxes and shapes designs (patterns)

machining

repair work

• maintenance shop - equipment care

sheet metal, machining, welding

Green sand mold area

half a pattern

flask open both top and bottom

squeezing sand

becomes rigid

pull it off pattern node.

cores put in cavity

then it goes to pouring area

sand conveying

after coating sand is returned back

screened

added water & binder

cores do not get reused - mangled back into sand
simply

Outside of sand is

landfill - the only thing that stays in
casting - inert material.

2 parts

a) make mold

b) sand system

back to molding machine

similar for all 3 green sands

liner sleeves - castings without cores.
more alloying - basically cast iron
poured casting

molten metal

③ Metal Melting

raw material

by truck

steel scrap from any suppliers or from
machine shops

from
outside
sources

trimmings from machining
borings - small chips from cast
iron machining
plate scrap.

50% of every casting returned

runner system to distribute to various
holes to produce good casting

that is all spent metal is returned
to melting

melt in induction furnace

or
arc furnace

a) induction furnace (2)
current on coil
induce current in metal
heat the melt

b) arc furnace (2) hold 24-ton
big pot
3 electrodes
strike an arc between inductor and metal
arc - melts metal on contact

melt - primary (arc)
24 ton batches
pour it into induction furnace to
bring up to temp and add alloys
hold 65 tons

metal holding furnace - simply holds metal at
temp - so that it could be
distributed in smaller batches

Dust collection / fume collection
depends upon the area

core area
dry sand - baghouse
core processing - wet scrubber
converter \rightarrow SO₂
acid - TCE

molding class

wet scrubbers
demister Vents

river water that is obtained
not drinkable

some in upward ventilation

Melting area

baghouse - Furnace

Finishing

baghouse - dry

Back to furnace

from holding
sent to casting
put on conveyor

Cooling of casting above 2nd floor
3-4 hours.

takes it to

Finishing Operation

Send for parts

No machining on casting here

- A) Shotblasting
- B) Grinding

chip and grind area
fine may be removed
via hammer or

grinders
manual operation
some automatic
but not much
also unwanted
material off

impl. steel shot at
surface of casting to
break all particulate

Stress relieve via heating because of
uneven cooling

2nd shotblasting
then ready for shipping

⑤ Stress relief - no ^{fund.} ^{to forget} ^{to forget} ^{to forget} } check
in specialty

automatic repair

day shift - casting
2nd - core
3rd - full production

3 shift 5 day a week

4 other areas

a) manufacture experimentation
they can make small rolls.
no cleaning

b) mini-roll area
some camshafts & cylinder heads.
cleaning, grinding

⑥ 3500 block area
16 cylinder version
make core and roll
bolted together ~~with~~
some metal in back
it comes out as complete
no external gas and noise

last mold line

- ~~large~~ original
- assembly of core
- pour solid/lost
- very slow to cool
- after cooling, blast it
- chipped and ground
- no stress relief here because of gradual cooling
- ~~and~~ sand to landfill.

Creek - runs through facility

NPOES permit
WWTP

{ Boiler house & heating plant
has not been used in several years
Building N is not in use.

Building R → Sanitary treatment
Drinking water plant
2 water towers
drinking
process water
no wells on site
found to be of poor quality

Building V → receiving building
degraded gravel
stored - chemical waste material S.T.

4-16 → ^{RCRA}Loage for drums.

Building P - empty

- originally construction/garage
- part of instant foundry
- casting for very precise parts
- form it out of wax
- wax covered ceramic

was nonhazardous

Building Q - electric

Building 44 like "LPG" bottles

42 - industrial X-ray building
check for defects

4-6 - small pump house

4-7 " "

4-3-4-5 lagoons

it is settled out

pumped to main property

RCRA HW storage area within B. } not in use -
fence of just south of Q } will go there
closer.

1) LANDFILL - 22 acres - topped - by surface soil.

2) Pond for slurry material - 10000

3) 4 RCRA sites

4) Building RR - bridge WWTP

5) SO₂ - TCE scrubbers

water liquids

TCE scrubbers

pumped in tanks into trucks

and gravity

Mossville - East Peoria

transport SO₂ liquid for reuse

6) Foundry process chemicals

handled in drums

off-site

incineration.

RR - special waste

1/1/83

1) NRC - AB-free

June 21, 1984

2) Anti cleaning solution on concrete (1983) Feb 4, 8

unknown

3) gasoline - pipeline leak

12/1/82

pipe split dug up

pipe that fed into pump for vehicle

gas line shutoff

4) Inside Building Boy

6/23/82

later

counterweight

rubber plastic bladder with mercury

discharge - onto floor area

collected mercury.

8 to 10 inch concrete

some wood block over concrete

5) Small gasoline storage tank

3/22/82

discharge pipe

gasoline on concrete pad

plugged opening

absorbent pillows

no release to soil or water

6) WWTP - Building RR

11/7/90

fuel acid into some outdoor tank

line

refined acid to pad and

soil

soil sent off-site

own supervision

7) Deember.

clean truck

12/19/91

ripped off saddle tank

trucking company

they cleaned it up.

a little soil picked up.

S.T.

4 - USTs on the property

UST 1 - detection equipment - ^{check} 70s (UST FILLING)
steel ? PUMP
10,000 ?

UST 2 - EMPTY - FUEL OIL
(check UST FILLINGS)

UST 3 - Diesel Leak Detection

UST 4 - TRIETHYLAMINE - leak detection

based
portable
day
ring
ring
B
bureau

UST 5 - Triethylamine - removed ^{1980s} ~~1980s~~
Prior to May 85

UST 6 - Core reins Prior to May 85

UST 7 - Hardcore reins prior to May 85

- ① Tristhylene (TEA) EAST UST ground level detection
- ② Saddle Tank accident/location
soil removed
- ③ Gasoline North
~~Tristhylene~~ Tank leak on legs
outdoors
- ③ Acid leak area
EAST

- ④ Sand Filters - inside RR - SE
- ⑤ Carbon Filters NW RR
- ⑥ Sludge Bay SE RR

Heating Plant

- ⑦ UST going to be removed
diesel concrete
broken
sampling holes
- ⑧ West Lagoon silt
- ⑨ South UST
- ⑩ West Ditch from WWTP
15

(11) SW Landfill - SWMU
filled in at 16 Corny
hole left in SW conts,

(12) near building y-co
PCB soil remediation area
(SE)

4
Xy ray building
photo developing
waste
silver
goniometer reclaimers

(13) SWMU-2
(14) EE - Haz Storage - Inactive
80 X 80
ground.

(15) SWMU-3
South Central
Idling Storage Area
Approx 30 X 60

(16) SWMU-4
Waste Oil Sump.
approx 2000
West

SW 1/4 - 5
(17) Y10 Active Hay Area
were flammable
approximately 15 drums.
Concrete
pump.
~~under~~ buried - 5 inches
covered.
South

(18) North PCB Spill
allow is where it was pumped out.

(19) Fuel pumps were
island SW

(20) TEA underground tanks UST
North

(21) former Marshaling Area (accumulators
North short tank.

8 x 40
(22) Rain tanks
North

(23) Rain Tanks - North

(24) WWTP (outside view)

South West

(25) Spill from truck accident (W)

(26) UST - (C) N

(27) Truckers accident (W)

Foundry Tour

(28) West - Steam Port Cleaner
3 or 4

Slog metal reclaimers

(29) Line 2 pouring zone

Looking West

slog on floor

Port porta reclaimer

rest porta melting unit

18

S.T.

Vehicle Wash down area

30) (pit in barrel)
solids & only
liquid - sewage treatment
→ Northey Island

sump goes into sewer acid alkaline sewer

South

31) Scrap iron / metals
broken pots
South



*TO Compliance
File*

Caterpillar Inc.

Mapleton, Illinois 61547

February 15, 1993

Mr. Kevin M. Pierard, Chief
Minnesota/Ohio Technical Enforcement Section
RCRA Enforcement Section
USEPA - Region 5
HRE-8J
77 W. Jackson Blvd.
Chicago, IL 60604-3590

Dear Mr. Pierard:

RE: Visual Site Inspection Report
Caterpillar Inc.
Mapleton IL
ILD052664364

On February 12, 1993, I spoke with Ms. Francene Harris, when I was not able to reach you by telephone. She suggested that we submit a margin-noted copy of the above referenced report for your review. This is enclosed.

I will call you on Thursday, February 18th, 1993, to discuss this matter.

Very truly yours,

A handwritten signature in dark ink, appearing to read "W. E. Schulze".

W. E. Schulze
Utilities Engineering Supt.

309-633-8784
1st

Enclosure



**PRELIMINARY ASSESSMENT/
VISUAL SITE INSPECTION**

**CATERPILLAR, INC.
MAPLETON, ILLINOIS
ILD 052 664 364**

FINAL REPORT

Prepared for

**U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Waste Programs Enforcement
Washington, DC 20460**

Work Assignment No.	:	C05087
EPA Region	:	5
Site No.	:	ILD 052 664 364
Date Prepared	:	January 12, 1993
Contract No.	:	68-W9-0006
PRC No.	:	009-C05087-IL2N
Prepared by	:	Resource Applications, Inc. (Arthur Marshalla) (Scott R. Tajak)
Contractor Project Manager	:	Shin Ahn
Telephone No.	:	(312) 856-8700
EPA Work Assignment Manager	:	Kevin Pierard
Telephone No.	:	(312) 886-4448

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
EXECUTIVE SUMMARY	ES-1
1.0 INTRODUCTION	1
2.0 FACILITY DESCRIPTION	4
2.1 FACILITY LOCATION	4
2.2 FACILITY OPERATIONS	4
2.3 WASTE GENERATING PROCESSES	10
2.4 HISTORY OF DOCUMENTED RELEASES	17
2.5 REGULATORY HISTORY	19
2.6 ENVIRONMENTAL SETTING	21
2.6.1 Climate	21
2.6.2 Flood Plain and Surface Water	22
2.6.3 Geology and Soils	22
2.6.4 Ground Water	23
2.7 RECEPTORS	24
3.0 SOLID WASTE MANAGEMENT UNITS	25
4.0 AREAS OF CONCERN	35
5.0 CONCLUSIONS AND RECOMMENDATIONS	37
REFERENCES	47

Attachment

- A EPA PRELIMINARY ASSESSMENT FORM 2070-12
- B VISUAL SITE INSPECTION SUMMARY AND PHOTOGRAPHS
- C VISUAL SITE INSPECTION FIELD NOTES

LIST OF TABLES

<u>Table</u>		<u>Page</u>
1	SOLID WASTE MANAGEMENT UNITS	8
2	SOLID WASTES	11
3	SWMU AND AOC SUMMARY	38

LIST OF FIGURES

<u>Figure</u>		<u>Page</u>
1	FACILITY LOCATION	5
2	FACILITY LAYOUT	6
3	ENLARGED FACILITY LAYOUT/SWMU AND AOC LOCATIONS	7

EXECUTIVE SUMMARY

Resource Applications, Inc. (RAI) performed a preliminary assessment and visual site inspection (PA/VSI) to identify and assess the existence and likelihood of releases from solid waste management units (SWMU) and other areas of concern (AOC) at the Caterpillar, Inc. (Caterpillar) facility in Mapleton, Illinois. This summary highlights the results of the PA/VSI and the potential for releases of hazardous wastes or hazardous constituents from SWMUs and AOCs identified. In addition, a completed U.S. Environmental Protection Agency (EPA) Preliminary Assessment Form (EPA Form 2070-12) is included in Attachment A to assist in prioritization of RCRA facilities for corrective action.

The Caterpillar (formerly known as Caterpillar Tractor Company) facility is a grey iron foundry used for the manufacturing of engine and heavy equipment castings. The facility's Standard Industrial Code is 3321. The facility generates and manages the following waste streams: waste refractory coating (D001, F002, U226), waste resins (D001, D002, F002, U122), waste core catalyst (D001), waste janitorial products (D001, D002), off-specification wastewater treatment plant chemicals (D001, D002), nonhazardous dewatered sludge, spent solvent (F002), waste off-specification chemical (U226), waste triethylamine scrubber liquor (D001), waste oil/grease (D008), nonhazardous waste oil/grease, waste sand, dust waste, polychlorinated biphenyls (PCBs), and nonhazardous phenolic wastewater. The facility has operated at its current location since 1967. The facility occupies 608 acres in an industrial area and employs about 800 people. The facility's regulatory status is that of a large-quantity generator and storage facility. Building B was started in 1967 and was occupied until 1986. Building D was started in 1978 and is presently in full operation. Before 1967 the area was unimproved open land.

The PA/VSI identified the following ten SWMUs and four AOCs at the facility:

Solid Waste Management Units

1. Waste Sand Landfill Area
2. Former Hazardous Waste Drum Storage Area
3. Indoor Hazardous Waste Drum Storage Area
4. Waste Oil Sump Area
5. Hazardous Waste Drum Storage Area

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6. Facility Baghouse Dust Collectors
7. Wastewater Treatment System
8. Former Hazardous Waste Drum Storage Marshalling Area
9. Waste Scrubber Liquor Discharge Tank Area
10. Phenolic Wastewater Storage Tank

RELEASED
DATE 6/29/02
RIN # 001
INITIALS WV

Areas of Concern

1. Underground Storage Tank Split-Pipeline Leak Area
2. Sulfuric Acid Leak Area
3. Abandoned Underground Storage Tank Leak Area
4. Diesel Fuel Truck Saddle Tank Spill Area

Past history of the SWMUs has revealed documented releases to the soil. The fact that Caterpillar's personnel are more aware of the regulations than they were 10 years ago is one reason why future spills or releases are unlikely. A PCB spill occurred in 1984, during a fire in Building B. The fire was put out with water which was pumped out of the building and onto the soil, thus contaminating the soil with PCBs. After cleanup, Caterpillar received a letter from IEPA approving the method of cleanup.

The potential for release to ground water from all SWMUs, except SWMU 1, is low. SWMU 1 has a moderate to high potential for release to ground water since hazardous constituent content in the waste disposed in this unit is unknown. AOC 3 has a moderate to high potential for release to ground water due to the gasoline release to the soil in the area. AOC 1 has a moderate potential for release to ground water. A gasoline release to soil occurred here; however, this release occurred in 1982. AOC 4 has a moderate potential for release to ground water due to the diesel fuel release to soil in this area. AOC 2 has a low potential for release to ground water.

The potential for release to surface water from all SWMUs, except SWMU 1, is low. There is also a low potential for release to surface water at all AOCs. SWMU 1 has a moderate to high potential for release to surface water since hazardous constituent content in the waste disposed in this unit is unknown.

The potential for release to on-site soils from all SWMUs, except SWMU 1, is low. However, overflow releases have occurred at SWMU 10. The unit has since been removed and no longer poses a threat to on-site soils. SWMU 1 has a moderate to high potential for release to on-site

RELEASED
DATE 6/29/20
RIN # U4
INITIALS UV

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soils since hazardous constituent content in the waste disposed in this unit is unknown. Releases of gasoline have occurred at AOC 1 and 3. No soil remediation has been conducted at either AOC. A release of sulfuric acid to on-site soil occurred at AOC 2. Thirty 55-gallon drums of contaminated soil were removed; however, no soil sampling was performed to verify that all contamination was removed. A release of diesel fuel to on-site soils occurred at AOC 4. Some soil was removed, but no documented soil sampling was available to RAI.

The potential for release to air from all SWMUs, except SWMU 1, and all AOCs is low. SWMU 1 has a moderate to high potential for release to air since hazardous constituent content in the waste disposed in this unit is unknown.

Caterpillar is located in an industrial area. A small residential area is located approximately 0.5 mile away. Water in the area is obtained from the Illinois River, located on the south property line of the facility. Other surface water bodies in the area include: 1) the Little Lamarsh Creek, which runs through the center of the Caterpillar property between Buildings B and D and drains into the Illinois River, and 2) the Pond of Lily Lake located approximately 1 mile southwest of Caterpillar's Building D and on the north side of the Illinois River. Wetlands are abundant in the area. The entire Caterpillar site was originally wetlands and was altered for the current land use. There are no ground water wells on site. The nearest ground water wells are in the Village of Mapleton, approximately 0.5 mile from Caterpillar. Facility access is controlled by fencing, security guards, and video-monitoring.

RAI recommends that RCRA closure be completed for SWMUs 2, 3, 5, and 8 per approved IEPA closure plans. Soil sampling should be conducted at SWMU 10 to determine if contamination occurred as a result of overflows at the unit. Integrity tests of the tanks at AOCs 1 and 3 should be performed, and the soil around all AOCs should be sampled for contamination. RAI recommends soil sampling at SWMU 1 to determine if hazardous constituent contamination does exist. If so, ground water sampling is recommended. Furthermore, RAI recommends hazardous constituent analysis of the nonhazardous special wastes stored at SWMU 1. RAI also recommends that a hazardous constituent waste analysis be performed on the waste dust stored in SWMU 6. If the waste is determined to be hazardous, sampling may be necessary for all environmental media. RAI recommends no further action for any of the other identified SWMUs.

1.0 INTRODUCTION

PRC Environmental Management, Inc. (PRC) received Work Assignment No. C05087 from the U.S. Environmental Protection Agency (EPA) under Contract No. 68-W9-0006 (TES 9) to conduct preliminary assessments (PA) and visual site inspections (VSI) of hazardous waste treatment and storage facilities in Region 5. Resource Applications, Inc. (RAI), TES 9 team member, provided the necessary assistance to complete the PA/VSI activities for the Caterpillar, Inc. (Caterpillar) facility in Mapleton, Illinois.

As part of the EPA Region 5 Environmental Priorities Initiative, the RCRA and CERCLA programs are working together to identify and address RCRA facilities that have a high priority for corrective action using applicable RCRA and CERCLA authorities. The PA/VSI is the first step in the process of prioritizing facilities for corrective action. Through the PA/VSI process, enough information is obtained to characterize a facility's actual or potential releases to the environment from solid waste management units (SWMU) and areas of concern (AOC).

A SWMU is defined as any discernible unit at a RCRA facility in which solid wastes have been placed and from which hazardous constituents might migrate, regardless of whether the unit was intended to manage solid or hazardous waste.

The SWMU definition includes the following:

- RCRA-regulated units, such as container storage areas, tanks, surface impoundments, waste piles, land treatment units, landfills, incinerators, and underground injection wells
- Closed and abandoned units
- Recycling units, wastewater treatment units, and other units that EPA has generally exempted from standards applicable to hazardous waste management units
- Areas contaminated by routine and systematic releases of wastes or hazardous constituents. Such areas might include a wood preservative drippage area, a loading-unloading area, or an area where solvent used to wash large parts has continually dripped onto soils.

An AOC is defined as any area where a release to the environment of hazardous waste or constituents has occurred or is suspected to have occurred on a nonroutine and nonsystematic basis. This includes any area where such a release in the future is judged to be a strong possibility.

The purpose of the PA is as follows:

- Identify SWMUs and AOCs at the facility.
- Obtain information on the operational history of the facility.
- Obtain information on releases from any units at the facility.
- Identify data gaps and other informational needs to be filled during the VSI.

The PA generally includes review of all relevant documents and files located at state offices and at the EPA Region 5 office in Chicago.

The purpose of the VSI is as follows:

- Identify SWMUs and AOCs not discovered during the PA.
- Identify releases not discovered during the PA.
- Provide a specific description of the environmental setting.
- Provide information on release pathways and the potential for releases to each medium.
- Confirm information obtained during the PA regarding operations, SWMUs, AOCs, and releases.

The VSI includes interviewing appropriate facility staff, inspecting the entire facility to identify all SWMUs and AOCs, photographing all SWMUs, identifying evidence of releases, initially identifying potential sampling locations, and obtaining all information necessary to complete the PA/VSI report.

This report documents the results of a PA/VSI of the Caterpillar facility in Mapleton, Illinois. The PA was completed on January 21, 1992. RAI gathered and reviewed information from the

Illinois Environmental Protection Agency (IEPA) and from EPA Region 5 RCRA files. RAI also reviewed relevant publications from the U.S. Department of Agriculture (USDA), Soil Conservation Service (SCS), U.S. Department of Commerce (USDC), U.S. Geological Survey (USGS), Federal Emergency Management Agency (FEMA), and the Illinois State Geological Survey (ISGS). The VSI was conducted on January 22, 1992. It included interviews with facility representatives and a walk-through inspection of the facility. Ten SWMUs and four AOCs were identified at the facility.

RAI completed EPA Form 2070-12 using information gathered during the PA/VSI. This form is included in Attachment A. The VSI is summarized and 11 inspection photographs are included in Attachment B. Field notes from the VSI are included in Attachment C.

2.0 FACILITY DESCRIPTION

This section describes the facility's location, past and present operations (including waste management practices), waste generating processes, history of documented releases, regulatory history, environmental setting, and receptors.

2.1 FACILITY LOCATION

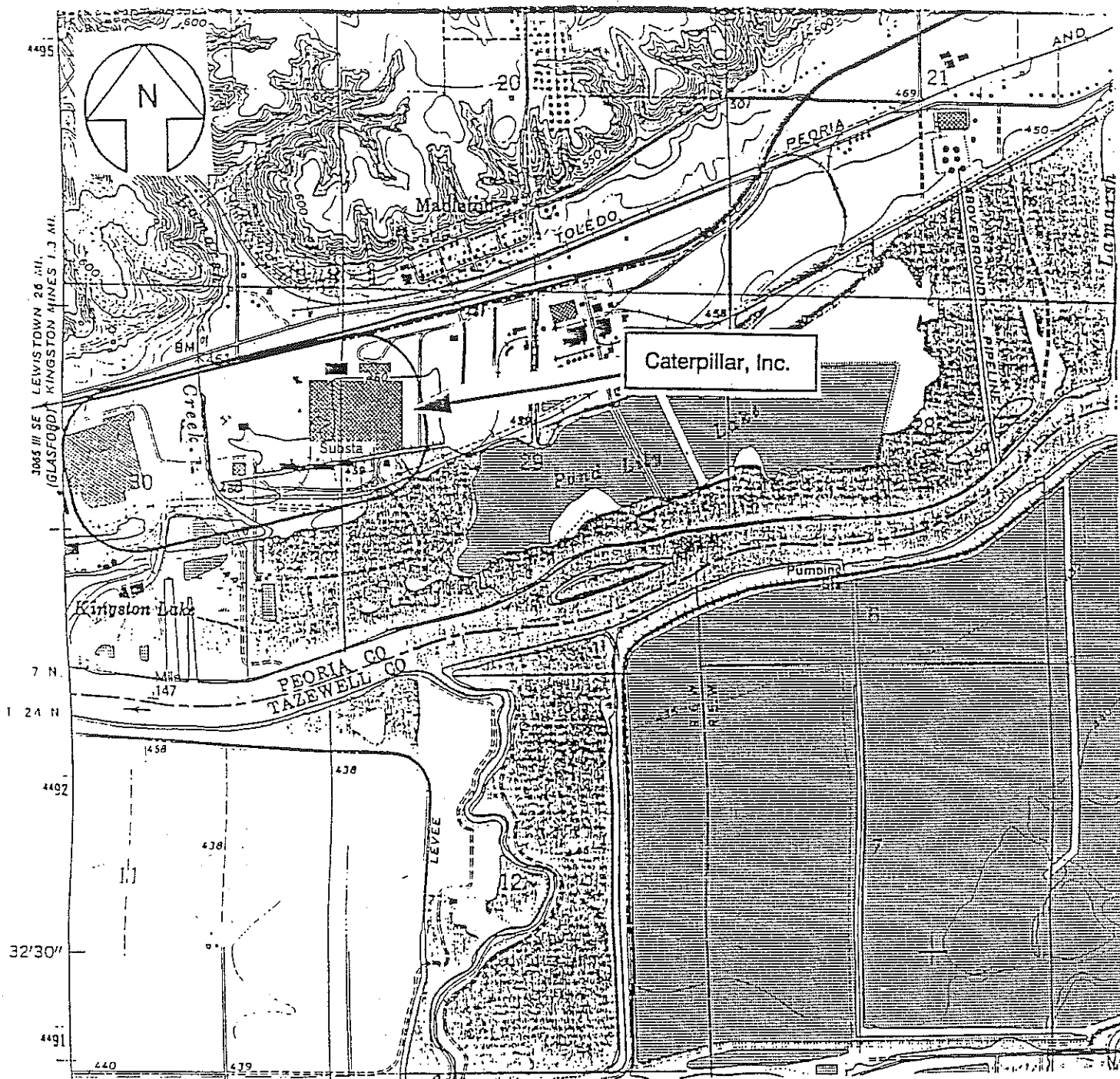
The Caterpillar facility is located at 8826 W. Route 24 in Mapleton, Peoria County, Illinois (latitude 40°33'035" N and longitude 89°44'008" W), as shown in Figure 1. The facility occupies 608 acres in an industrial area.

The Caterpillar facility is bordered on the north by U.S. Route 24/Illinois Route 9 and the Village of Mapleton, on the east by two chemical plants, on the south by the Illinois River, a barge terminal, and a warehouse, and on the west by open land and farmland.

2.2 FACILITY OPERATIONS

According to the facility representative, Caterpillar started their operations in Building B in 1967 and operated until 1986. A new building, Building D, started operations in 1978 and is currently in operation. In 1986, the company incorporated in Delaware as Caterpillar, Inc. and the name was changed to reflect the new status. The facility regulatory status is that of a large-quantity generator and storage facility. Before 1967 the area was unimproved open land.


Caterpillar ceased operations in Building B in 1986. When operating, this facility was a grey iron foundry used for the manufacture of engine and heavy equipment castings. Its Standard Industrial Code was 3321. A facility layout of Caterpillar is included as Figure 2. Figure 3 is an enlargement of Figure 2 and includes locations of SWMUs and AOCs. Table 1 presents the SWMUs identified at the facility.

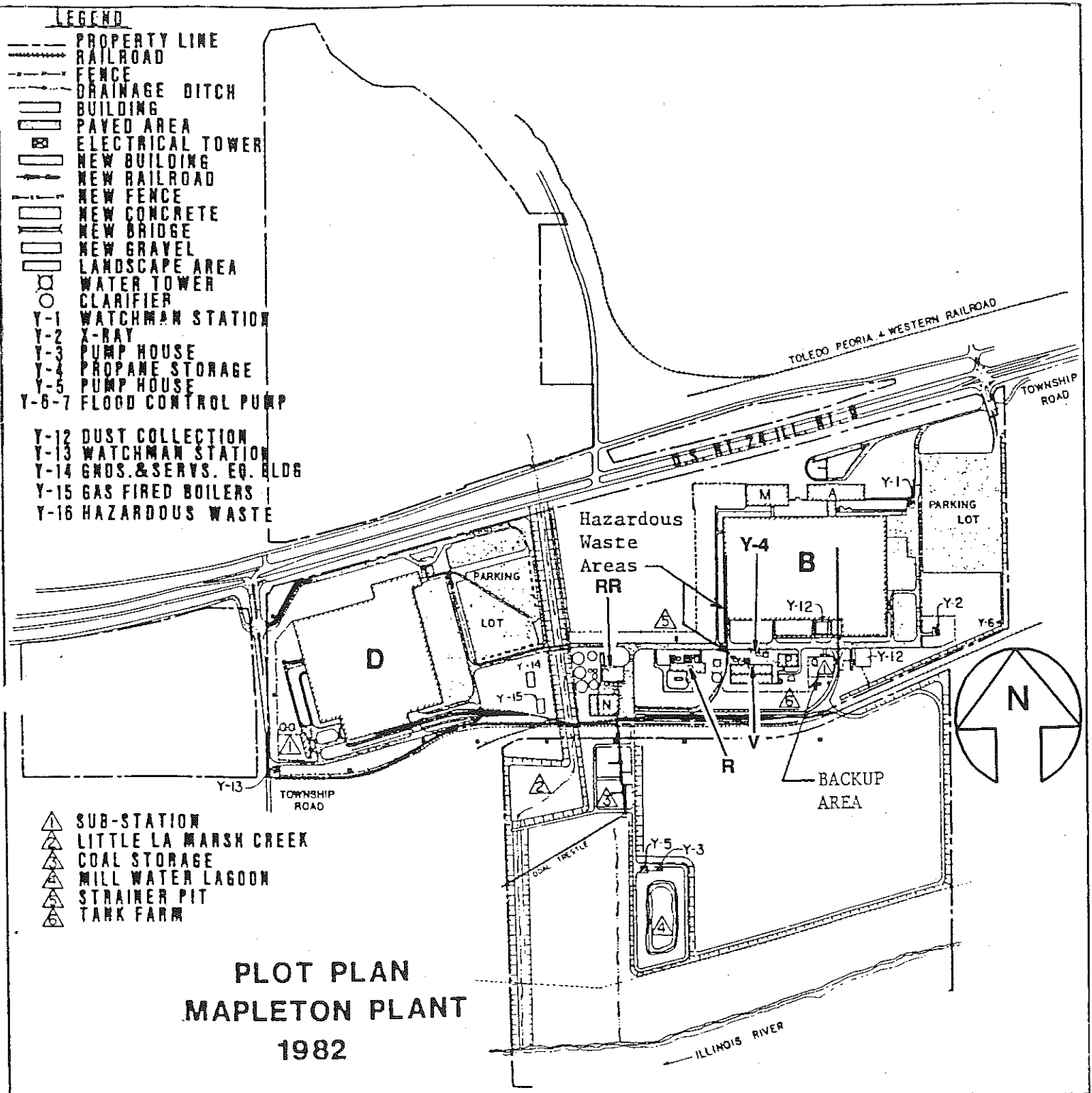


Caterpillar, Inc.
Mapleton, Illinois

Figure 1
FACILITY LOCATION

Scale: 1:24,000
Source: Modified from USGS, 1979


 Resource Applications, Inc.



Caterpillar, Inc.
 Mapleton, Illinois

Figure 2
 FACILITY LAYOUT

Scale: 1" = 1000'
 Source: Caterpillar, 1982

 Resource Applications, Inc.

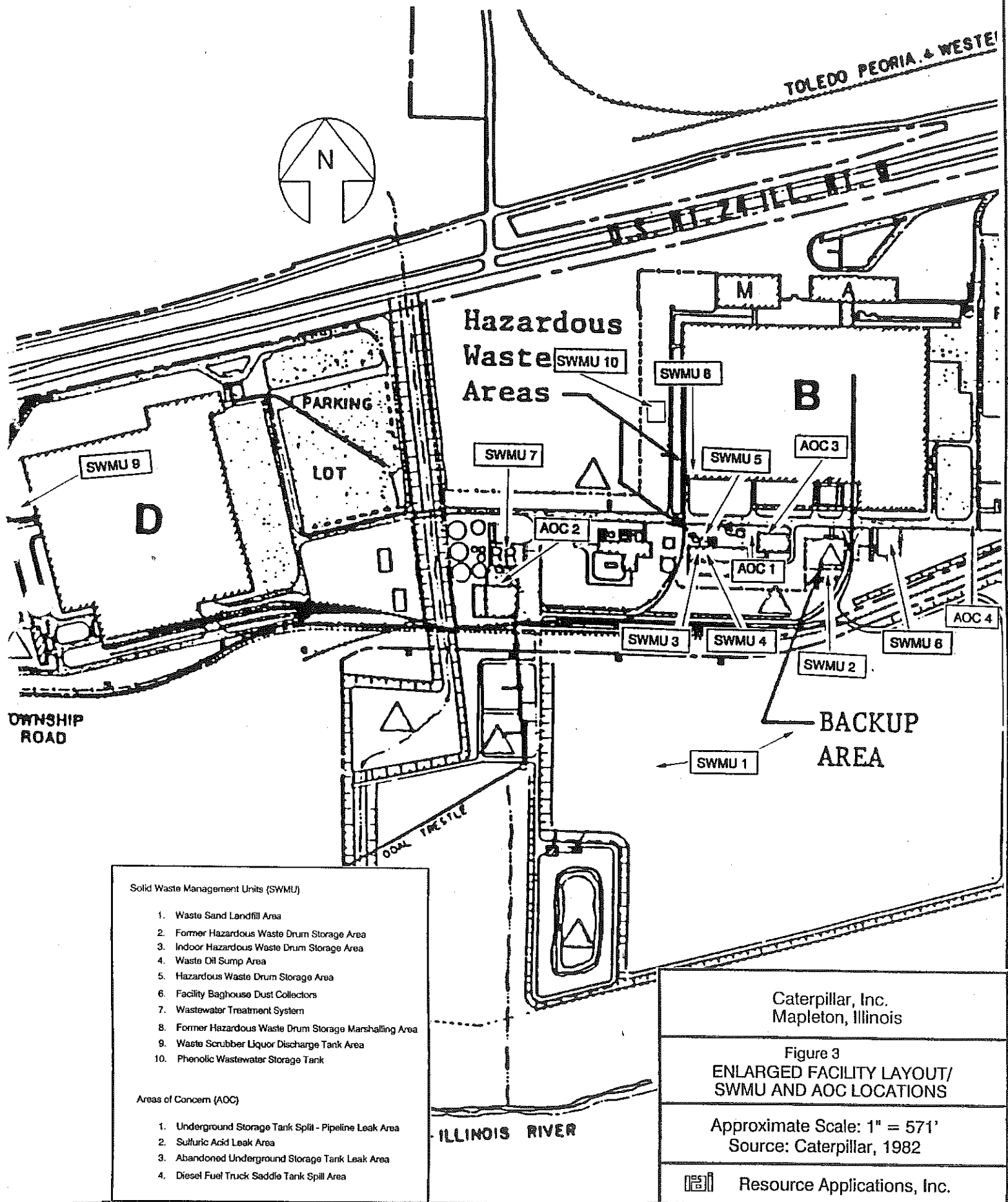


TABLE 1
SOLID WASTE MANAGEMENT UNITS

<u>SWMU Number</u>	<u>SWMU Name</u>	<u>RCRA Hazardous Waste Management Unit^a</u>	<u>Status</u>
1	Waste Sand Landfill Area	No	Active, estimated year for final closure is 1995.
2	Former Hazardous Waste Drum Storage Area	Yes	Inactive, stored greater than 90 days, anticipated RCRA closure by 11/8/92.
3	Indoor Hazardous Waste Drum Storage Area	Yes	Active, greater than 90-day storage, anticipated RCRA closure by 11/8/92.
4	Waste Oil Sump Area	No	Active, less than 90-day storage.
5	Hazardous Waste Drum Storage Area	Yes	Active, greater than 90-day storage, anticipated RCRA closure by 11/8/92.
6	Facility Baghouse Dust Collectors	No	Active, less than 90-day storage.
7	Wastewater Treatment System	No	Active, less than 90-day storage.

Note:

^a A RCRA hazardous waste management unit is one that currently requires or formerly required submittal of a RCRA Part A or Part B permit application.

TABLE 1 (continued)
SOLID WASTE MANAGEMENT UNITS

<u>SWMU Number</u>	<u>SWMU Name</u>	<u>RCRA Hazardous Waste Management Unit^a</u>	<u>Status</u>
8	Former Hazardous Waste Drum Storage Marshalling Area	Yes	Inactive, stored greater than 90 days, anticipated RCRA closure by 11/8/92.
9	Waste Scrubber Liquor Discharge Tank Area	No	Active, less than 90-day storage.
10	Phenolic Wastewater Storage Tank	No	Inactive, stored nonhazardous phenolic wastewater prior to on-site treatment.

Note:

^a A RCRA hazardous waste management unit is one that currently requires or formerly required submittal of a RCRA Part A or Part B permit application.

The facility has operated at its current location since 1967 and employs about 800 people. The facility consists of many buildings, which are described as follows: Office (A) (61,640 square feet), Foundry (D) (1,519,660 square feet), Electric Switch House (Q) (3510 square feet), Electric Switch House (QQ) (11,450 square feet), Air Compressor/Waste Treatment (R) (40,815 square feet), Waste Treatment (RR) (47,700 square feet), Storage and Receiving (V) (52,700 square feet), Watch Shelter (Y-1) (3,070 square feet), X-Ray (Y-2) (1,700 square feet), Pump House (Mill Water) (Y-3) (1,710 square feet), Compressed Gas Storage (Y-4) (1,200 square feet), Pump House (Mill Water) (Y-5) (4,200 square feet), Pump House (Flood Control) (Y-6) (312 square feet), Pump House (Flood Control) (Y-7) (465 square feet), Guard House (Y-13) (660 square feet), Yard Equipment Storage (Y-14) (6,250 square feet), Temporary Boiler Plant (Y-15) (6,000 square feet) and Hazardous Waste Drum Storage Building (Y-16) (450 square feet).

There are ten SWMUs of which three are presently inactive (SWMUs 2, 8, and 10). The Waste Sand Landfill Area (SWMU 1) is permitted by the State of Illinois as a Solid Waste Disposal Site and is used only for nonhazardous waste sand from the molding operations. Discharge from the Wastewater Treatment System (SWMU 7) is regulated under a National Pollutant Discharge Elimination System (NPDES) permit. This system was started in the mid-1970s and is still in operation. The actual foundry process consists of four steps, which are: (1) manufacturing, or the making of cores, which represent the finished product; (2) molding, which consists of setting the core in a core box and forming sand around the core, after which the core is removed, thus leaving a void which now represents the shape of the finished product; (3) pouring molten steel into the void, thus forming the actual product; and (4) finishing, which removes bumps and rough edges.

2.3 WASTE GENERATING PROCESSES

The primary waste streams generated at the Caterpillar facility are waste refractory coating (D001, F002, U226), waste resins (D001, D002, F002, U122), waste core catalyst (D001), waste janitorial products (D001, D002), off-specification wastewater treatment plant chemicals (D001, D002), spent solvent (F002), waste off-specification chemical (U226), waste triethylamine scrubber liquor (D002), waste oil/grease (D008), nonhazardous waste oil/grease, waste sand, dust waste, polychlorinated biphenyls (PCBs), and nonhazardous phenolic wastewater. These wastes are

TABLE 2
SOLID WASTES

<u>Waste/EPA Waste Code^a</u>	<u>Source</u>	<u>Solid Waste Management Unit</u>
Waste Refractory Coating/D001, F002, U226	Air dry core, dip and mold spray	2, 3, 5, 8
Waste Resins/D001, D002, F002, U122	Core Room	2, 3, 5, 8
Waste Core Catalyst/D001	Core Room	2, 3, 5, 8
Waste Janitorial Products/D001, D002	Facility Cleaning and Maintenance Procedures	2, 3, 5, 8
Off-Specification Wastewater Treatment Plant Chemicals/D001, D002	Wastewater Treatment Plant	7
Dewatered Sludge/NA	Wastewater Treatment Plant	7
Spent Solvent/F002	General Cleaning Solvent	2, 3, 5, 8
Waste Off-Specification Chemical/U226	Foundry Process	2, 3, 5, 8
Waste Triethylamine Scrubber Liquor/D002	Core Room	9
Waste Oil/Grease/D008	Sump Area	3, 4
Waste Oil/Grease/NA	Sump Area	4, 5

Notes:

^a Not applicable (NA) designates nonhazardous waste.

^b Caterpillar claims that this waste is nonhazardous (Caterpillar 1992b). IEPA regulates it as a nonhazardous special waste (IEPA 1988a, 1989). Hazardous constituent analyses for this waste were not provided. Hence, no waste designation has been provided.

TABLE 2 (continued)

SOLID WASTES

Waste/EPA Waste Code ^a	Source	Solid Waste Management Unit
Waste Sand ^b	Core and Mold Room	1
Dust Waste ^b	Foundry Process	1, 6
PCBs	Capacitors & Transformers	3, 5
Phenolic Wastewater/NA	Core manufacturing cleaning	10

Notes:

^a Not applicable (NA) designates nonhazardous waste.

^b Caterpillar claims that this waste is nonhazardous (Caterpillar 1992b). IEPA regulates it as a nonhazardous special waste (IEPA 1988a, 1989). Hazardous constituent analyses for this waste were not provided. Hence, no waste designation has been provided.

generated during the manufacture of engines and heavy equipment castings. Wastes generated at the facility are discussed below and are summarized in Table 2. The discussion, including waste generation rates, will be based on the results of an IEPA inspection report dated December 9 and 16, 1988. Wastes have been stored in the Former Hazardous Waste Drum Storage Area (SWMU 2), Indoor Hazardous Waste Drum Storage Area (SWMU 3), Hazardous Waste Drum Storage Area (SWMU 5), and Former Hazardous Waste Drum Storage Marshalling Area (SWMU 8), as listed in Table 2, but records are not available to indicate which specific wastes were stored in which specific units (Caterpillar, 1992a). SWMUs 2, 3, 5, and 8 became active in 1967, and SWMUs 2 and 8 are presently inactive. The dates SWMUs 2 and 8 became inactive are unknown.

Caterpillar's core manufacturing operation generates several types of waste refractory coatings (D001, F002, U226). The refractory coating is used to prevent molten iron from sticking to the sand during core manufacture. The core is dipped into a tank in order to apply the refractory coating. The waste is generated during periodic cleaning of the tank. The process generates a solvent-based coating, 1,1,1-trichloroethane (F002, U226) mixed with clay, and an alcohol-base coating (D001), such as Betacur (D001), FR4 Release (F002), and Silicon Release (F002) (IEPA, 1990a). The waste was stored in SWMUs 2, 3, 5, and 8. The facility generates an average of five drums per month (Caterpillar, 1992b). The waste is transported off site by Chemical Waste Management (CWM) to Trade Waste Incineration (TWI) in Sauget, Illinois. This waste is treated by incineration. Some of it is delivered to the CWM, Emelle Facility (CWM, EM) in Emelle, Alabama for fuel blending, stabilization, and landfill (Caterpillar, 1992b).

Caterpillar's core manufacturing operation also generates several types of waste resin (D001, D002, F002, U122). The resins are used during core manufacturing for binding sand. The facility uses the following types of resins: metal cleaners (F002), defoamer (D001), triethylamine scrubber liquor (D002), and formaldehyde (U122) (IEPA, 1990a). The waste was stored in SWMUs 2, 3, 5, and 8. The facility generates an average of five drums per month (Caterpillar, 1992b). The waste is transported off site by CWM to CWM, EM for fuel blending, stabilization, and landfill (Caterpillar, 1992b).

Caterpillar's core manufacturing operation generates several types of waste core catalysts (D001). The core catalysts are used to increase the rate of chemical reaction during core

manufacturing (IEPA, 1990a). The facility uses the following types of core catalysts: Pepset catalyst (D001) and Furan catalyst (D001). The waste was stored in SWMUs 2, 3, 5, and 8. The facility generates an average of two drums per month (Caterpillar, 1992b). The waste is transported off site by CWM to CWM, EM for fuel blending, stabilization, and landfill (Caterpillar, 1992b).

Caterpillar generates waste janitorial products (D001, D002) from facility cleaning and maintenance operations. The facility uses the following types of janitorial products: Johnson Step-Off (D002), floor stripper (D002), triethylamine (D001), Stenisol (D001), lacquer thinner (D001), maintenance paint (D001), Floor Black Seal (D001), and Johnson Forward (D002). The waste was stored in SWMUs 2, 3, 5, and 8. The facility generates an average of one drum per year (Caterpillar, 1992b). The waste is transported off site by CWM to CWM, EM for fuel blending, stabilization, and landfill (Caterpillar, 1992b).

Caterpillar generates off-specification wastewater treatment chemicals (D001/D002). The facility uses wastewater treatment chemicals in their Wastewater Treatment System (SWMU 7). The following chemicals have become outdated and off-specification in the past: Betz Slimicide J-12 (D001), Betz Slimicide C-30 (D001), Betz 492 (D002), and Betz 562C (D002). The facility generates an average of 19 drums per year. The waste was transported by CWM to CWM, EM for stabilization and landfill (Caterpillar, 1992b).

Caterpillar's Wastewater Treatment System (SWMU 7) generates dewatered sludge (nonhazardous) as a residue. The sludge is collected from the acid-alkali-oil (AAO) treatment systems and the dust collector wastewater (DCWW) systems. Dewatered sludge is estimated to be 40 percent solid and is transferred from the drying units to a truck loadout area with belt conveyors, all of which are a part of SWMU 7. It is estimated that 80 to 100 cubic yards per day of dry sludge is disposed of at the Peoria City/County Landfill (IEPA, 1990b).

Caterpillar utilizes 1,1,1-trichloroethane as a solvent for general cleaning operations, or as an off-specification chemical in the foundry process (IEPA, 1990a). The spent solvent (F002) and the waste off-specification chemical (U226) were stored in SWMUs 2, 3, 5, and 8. Combined, the facility generates an average of eight drums per year of these wastes. Most of these drums are transported off site by CWM to TWI in Sauget, Illinois for incineration, and the remainder are

transported to CWM, EM for solvent recovery (Caterpillar, 1992b). Information regarding specific amounts and disposition per waste type (i.e. spent solvent (F002) and waste off-specification chemical (U226)) was not available to RAI.

Caterpillar generates waste triethylamine scrubber liquor (D002) as a result of an air scrubber operation in the core room. This waste is accumulated in the Waste Scrubber Liquor Discharge Tank Area (SWMU 9), which discharges it into aboveground storage tanks. This waste is generated at a rate of approximately 7,000 gallons per month. The waste is emptied from the scrubber to the storage tanks by gravity feed and then to the highway tanker truck by hauling it in a small, in-house (approximately 400-gallon) tanker. The wastes are transported off site by the Peoria Disposal Company, Peoria, Illinois to Clean Harbors of Chicago, Illinois for aqueous organic treatment (Caterpillar, 1992b).

Caterpillar generates hazardous waste oil/grease (D008) and nonhazardous waste oil/grease as a result of maintenance operations of vehicles and machinery. This operation involves the Waste Oil Sump Area (SWMU 4), which pumps the waste to 55-gallon drums. The facility generates approximately 30 55-gallon drums per month, of which about 75 percent are nonhazardous waste oil/grease. The waste is stored in SWMU 3 or 5. The hazardous waste oil/grease (D008) from SWMU 3 is transported by CWM and taken to CWM, EM for stabilization and landfill. The nonhazardous waste oil/grease from SWMU 5 is transported by Safety-Kleen Corporation to Breslube USA, Inc., East Chicago, Indiana for reclamation (Caterpillar, 1992b).

Caterpillar generates waste sand from core making and the molding process. This waste is disposed of on site in Caterpillar's privately owned Waste Sand Landfill Area (SWMU 1). Caterpillar claims that this waste is nonhazardous (Caterpillar, 1992b). IEPA regulates the waste sand as a nonhazardous special waste (IEPA 1988a, 1989). Hazardous constituent analyses for this waste were not provided by Caterpillar. Hence, no waste designation has been provided. The Waste Sand Landfill Area (SWMU 1) has no monitoring wells (IEPA, 1990a). The landfill covers an area of 82 acres and is located south of Building B and north of the Illinois River. The facility's estimate of the annual volume of waste received is 61,000 cubic yards (IEPA, 1991). The total capacity of the landfill is greater than 2 million cubic yards. It is estimated that the landfill will remain in operation until 1995. The waste is transported by Caterpillar's own trucks, scrapers and other hauling

equipment. The waste sand is moved into place and compacted using common earthworking machinery.

Caterpillar generates dust waste which is captured in the Facility Baghouse Dust Collectors (SWMU 6). This is an air pollution control device, used for controlling solid particulate emissions to the atmosphere by utilizing an induced draft fan and collecting the dust in a series of special-type cloth bags. The dust particulates are automatically removed from the bags and gravity fed onto a conveyor. The conveyor then transports the waste dust to a storage hopper where it is mixed with sand and water. The waste is generated at the rate of approximately 10 cubic yards per month. The waste is then taken to the Waste Sand Landfill Area (SWMU 1). Caterpillar claims that this waste is nonhazardous (Caterpillar, 1992b). IEPA regulates the dust waste as a nonhazardous special waste (IEPA, 1988b, 1989). Hazardous constituent analyses for this waste were not provided by Caterpillar. Hence, no waste designation has been provided. The Waste Sand Landfill Area has no monitoring wells (IEPA, 1990a).

Caterpillar generates significant amounts of PCBs periodically when old equipment containing PCB capacitors and transformers breaks down or becomes unserviceable. Caterpillar is no longer purchasing new components which utilize PCBs. The drummed wastes which may be contaminated with PCBs were first stored in SWMU 3 or 5, and then shipped for incineration to various incinerators (IEPA, 1986).

Between the mid-1970s and the early 1980s, Caterpillar generated a nonhazardous phenolic wastewater. This wastewater was generated from the core manufacturing process in Building B. Water was used to clean the core manufacturing machines and the resultant wastewater contained low levels of phenols from core resins used during the production (Caterpillar, 1992e). According to Illinois Disposal Permit No. 781475, this wastewater was nonhazardous (Caterpillar, 1992d). The wastewater was directed to the Phenolic Wastewater Storage Tank (SWMU 10) via a piping system. The phenolic wastewater was then discharged to the facility's on-site sanitary waste treatment plant for biological treatment along with the facility's sanitary waste (Caterpillar, 1992e). According to a facility representative, an off-site disposal permit was maintained by Caterpillar in the event that the storage/treatment capacity became insufficient. It is not known if Caterpillar ever utilized this disposal permit.

Between the mid-1970s and early 1980s, Caterpillar generated a nonhazardous phenolic wastewater from the cleaning of the core manufacturing machines (Caterpillar, 1992e). This wastewater was stored in the Phenolic Wastewater Storage Tank (SWMU 10) prior to on-site biological treatment. According to a facility representative, overflows occurred at this tank resulting in the phenolic wastewater being released to uncovered soil beneath and around SWMU 10. The facility was unable to provide any information regarding dates, amounts, or remedial activities associated with these releases.

On March 22, 1982, there was a small gasoline leak from a damaged discharge line on a small tank located on a Building D slab. The leak was reported to National Response Center (NRC) the same day. There was no release to any environmental media (Caterpillar, 1992a).

On June 23, 1982, there was a mercury (D009) spill inside Building B (molding) which occurred from a broken counterweight. The spill was reported to NRC on June 23, 1982. The spill occurred in a mold line shakeout area. This particular shakeout area used counterweights filled with mercury, which were used to produce a vibratory action needed to shake sand off castings. The counterweight was damaged and released approximately 12 pounds of mercury. The mercury spill was on a concrete floor and was cleaned up so that there was no release to the environment. The concrete floor is 10 inches thick. The mercury was given to a Caterpillar laboratory for their use. There is no documentation of cleanup approval from IEPA (Caterpillar, 1992a).

On December 1, 1982, there was a gasoline pipeline leak, the Underground Storage Tank (UST) Split-Pipeline Leak Area (AOC 1). There was a split in a pipe that fed gasoline from an UST into pumps for vehicles. This area is located immediately south of Building B. The line was shut off. The leak was reported to NRC on December 1, 1982. According to a facility representative, sampling and any necessary removal and proper disposal of soil are scheduled for the near future (Caterpillar, 1992a).

On February 4, 1983, there was an indoor release of a caustic cleaning solution. A facility representative stated that the only record of this incident is a release report made by telephone to

NRC in 1983. The facility representative also commented that the release report does not list the location of the spill, although it indicates the material was collected for proper disposal (Caterpillar, 1992a). There was no documentation of release to the environment.

A fire in a capacitor vault, in Building B, on June 20, 1984 caused the release of PCB-contaminated water onto the ground outside the south end of the building and into a catch basin called Y-6 (see Figure-2). This spill involved approximately 100 gallons of PCB-contaminated water from a number of small capacitors, which resulted in an extensive cleanup which is now complete. IEPA submitted a letter to Caterpillar, approving the cleanup of the PCB spill (IEPA, 1985).

On November 7, 1990, there was a sulfuric acid leak from an acid feed line for the wastewater treatment plant, outside Building RR, referred to as the Sulfuric Acid Leak Area (AOC 2), which was reported to NRC on the same day. The leak had contaminated soil in the immediate area. The contaminated soil was removed by Caterpillar personnel and shipped out (Caterpillar, 1992a). There is no documentation of any soil sampling subsequent to remediation. No information was available on the transporter used or the ultimate disposition of the contaminated soil.

On December 19, 1991, a truck (not Caterpillar's) had an accident at the Caterpillar facility. As a result of the accident, a diesel fuel saddle tank was ripped away from the truck causing a spill in the Diesel Fuel Truck Tank Spill Area (AOC 4) which contaminated the soil in that area. The owner of the truck contracted a spill response company to clean up the area. Some contaminated soil was removed and disposed of by the spill response company. There is no documentation of sampling or where the contaminated soil was shipped (Caterpillar, 1992a).

In mid-January 1992, Caterpillar detected a release in the Abandoned Underground Storage Tank Leak Area (AOC 3). The incident was reported to the Illinois Emergency Services and Disaster Agency (IESDA). The tank contained gasoline, which was originally used for fuel in vehicles. The aboveground pump station which would have worked in conjunction with this tank has been removed. Based on tests which were taken at the site, some contamination was detected. There is no documentation as to the type of tests which were taken or when they were taken. It is also understood that Caterpillar intends to perform more testing and to remediate as required. It is not

known what type of testing will be performed. IESDA has notified IEPA about the release (Caterpillar, 1992c). No further information was given to RAI regarding this release.

2.5 REGULATORY HISTORY

According to an IEPA inspection report, Caterpillar submitted a Notification of Hazardous Waste Activity to EPA on August 18, 1980 (IEPA, 1988b). A copy of Caterpillar's notification could not be obtained by RAI. The facility submitted a RCRA Part A permit application on November 17, 1980 (Caterpillar, 1980). The application listed the following wastes: D001, D002, D006, D008, D013, D017, F001, U009, U121, U122, U133, U154, U188, U226, U228, and U242. The process design capacity is listed as a 33,000-gallon drum storage area (S01), 500-gallon storage tank (S02), 500 liters-per-day treatment (T04), and 20 gallons-per-day tank treatment (T01). The total estimated quantity of waste is 748,000 pounds per year. The above includes PCB waste which is shipped to various incineration facilities for disposal. According to a facility representative, the S02 designation referred to the Phenolic Wastewater Storage Tank (SWMU 10) and although the capacity for SWMU 10 could not be determined, it was greater than 500 gallons. On January 31, 1984, Caterpillar submitted a revision to the Part A permit application to change its waste codes (Caterpillar, 1984a). The application listed the following wastes: D002 and D008. The process design capacity is listed as a 6,380-gallon storage tank (S02). The estimated quantity of waste for both D002 and D008 is 4,600 pounds per year. On December 21, 1984, Caterpillar submitted a revision to the Part A permit application to change its waste codes (Caterpillar, 1984b). This letter stated that the Caterpillar, Mapleton plant did not have any hazardous waste storage tanks in use. They had filed incorrectly. The application listed the following wastes: D001, D002, D008, and U226. The process design capacity is listed as a 33,000-gallon drum storage area (S01). The total estimated quantity of waste is 286,000 pounds per year. On May 5, 1989, Caterpillar submitted a revision to the Part A permit application to change its waste codes (Caterpillar, 1989). The application listed the following wastes: D001, D002, D003, F002, U122, and U226. The process design capacity is listed as a 55,000-gallon drum storage area (S01). The total estimated quantity of waste is 28,000 pounds per year.

Caterpillar is currently in the process of closing the following SWMUs: Former Hazardous Waste Drum Storage Area (SWMU 2), Indoor Hazardous Waste Drum Storage Area (SWMU 3),

Hazardous Waste Drum Storage Area (SWMU 5) and Former Hazardous Waste Drum Storage Marshalling Area (SWMU 8) (Caterpillar, 1987). These four SWMUs will go through RCRA closure in 1992 (Caterpillar, 1992a).

Caterpillar is classified as a large-quantity generator and storage facility (IEPA, 1988a). The Waste Sand Landfill Area (SWMU 1) is permitted by the State of Illinois as a solid waste disposal site for nonhazardous special waste (LPC No. 143 805 004) (IEPA, 1988a, 1991). Caterpillar claims that SWMU 1 manages nonhazardous waste (Caterpillar, 1992b). IEPA documents indicate that the waste in SWMU 1 consists of nonhazardous special waste sand and dust generated in the Caterpillar foundry (IEPA, 1988a, 1989). Since this unit manages nonhazardous special waste, IEPA documents also refer to this unit as a special waste landfill (IEPA, 1988a, 1989). Caterpillar was unable to provide RAI with a copy of the IEPA special waste permit required for disposal of the waste in SWMU 1.

The Wastewater Treatment System (SWMU 7) discharges treated wastewater from the foundry process and sanitary sources to the Illinois River from three outfalls. The discharges from SWMU 7, sanitary, and noncontact cooling water sources are regulated under NPDES Permit No. IL0001830, effective September 22, 1990 (IEPA, 1990b). Caterpillar releases noncontact cooling water to the Illinois River without treatment (Caterpillar, 1991). The primary parameters to be monitored and limited for the sanitary and process outfall are pH, BOD₅, total suspended solids, chromium (total), chromium (hexavalent), iron, zinc, phenol, oil and grease, fecal coliform, and chlorine residual. The primary parameters to be monitored for the noncontact cooling water outfall are temperature, pH, and oil and grease. The primary parameters to be monitored and limited for the dust collection scrubber wastewater outfall are pH, total suspended solids, oil and grease, copper, lead, zinc, and phenol. In addition, Caterpillar will continually evaluate the potential for discharge of other pollutants not specifically limited in the permit (Caterpillar, 1990).

A RCRA compliance inspection was conducted by IEPA in September 1987. Violations related to an inadequate contingency plan were noted (IEPA, 1987). Caterpillar responded to these violations; however, no further documentation was available (Caterpillar, 1987). Other RCRA inspections were conducted in December 1988, July 1989 and May 1990. Inspectors noted violations

related to hazardous waste storage tank violations (referring to SWMU 9) (IEPA, 1988b), violation of special waste handling (IEPA, 1989) and failure to file a closure plan (IEPA, 1990a). No further documentation regarding these violations was available to RAI.

The facility has operating air permits for the following areas: B-Core, B-Molding, B-Melting, B-Metallurgy, B-Finishing, B-Camshaft, G-Line, Boiler (coal), Boiler 2-3 (coal), Boiler 4-5 (coal), Boilers 1-2-3 (gas and oil), Boiler 5 (oil), Kewanee Boilers, D-Core, Mold Line 1 and 2, Mold Line 4, D-Melting, Phase II Melting, D-Finishing, 3500 Area, 3600 Area, D-Camshaft, Pattern Shop, Organic Liquid, Bulk Chemical, Investment Casting and Open Burning (Caterpillar, 1988). The facility has no history of odor complaints or documented air permit compliance problems.

2.6 ENVIRONMENTAL SETTING

This section describes the climate, flood plain and surface water, geology and soils, and ground water in the vicinity of the Caterpillar facility.

2.6.1 Climate

The climate in Peoria County is continental, with wide variations in temperature between summer and winter. The average daily temperature is 50.4°F. The lowest average daily temperature is 13.3°F in January. The highest average daily temperature is 85.5°F in July (NOAA, 1990).

The average annual precipitation for Peoria is 34.89 inches (NOAA, 1990). The mean annual lake evaporation for the area is about 32 inches (USDC, 1968). The 1-year, 24-hour maximum rainfall is 5.06 inches (NOAA, 1990). Average annual snowfall is 24.7 inches. Precipitation is somewhat evenly distributed throughout the year, with slightly more falling in spring and summer (NOAA, 1990).

The prevailing wind is from the south, except during the winter months, when winds from the west-northwest may be more frequent. Average annual wind speed is 10.0 miles per hour (mph). Average wind speed is highest in March, at 12.1 miles per hour. The average relative humidity is

about 71 percent. Humidity is higher at night, and the average at dawn is about 83 percent (NOAA, 1990).

2.6.2 Flood Plain and Surface Water

The portion of the Caterpillar facility property south of the main plant buildings lies within the 500-year flood plain but outside the 100-year flood plain. The remainder of the property is outside the 500-year flood plain (FEMA, 1983). The nearest surface water body is the Illinois River which is located next to the southern property line and is approximately 700 feet from the nearest Caterpillar building. The Illinois River is used for recreational, agricultural, industrial and municipal water supply purposes. This surface water body discharges to the Mississippi River.

Surface water drainage at the facility is to the south toward the Illinois River. Storm water discharges (drains) rapidly toward the Illinois River. Two major surface water bodies are in the area. The Little Lamarsh Creek runs north and south basically through the center of the Caterpillar property, between Buildings B and D and drains into the Illinois River. Little Lamarsh Creek is used for drainage purposes. The other main surface water body is the Pond of Lily Lake, located approximately 1 mile southwest of Caterpillar's Building D and is just north of the Illinois River. Wetlands are abundant in the area. The entire Caterpillar site was originally wetlands before it was altered for the current land use (USDA, 1992). There are no ground water wells on site. The nearest ground water wells are in the Village of Mapleton, approximately 0.5 mile south (downgradient) from Caterpillar.

2.6.3 Geology and Soils

The facility is underlain by Orthents-Urban Land according to the Peoria County Soil and Water Conservation District (PCSWCD). Accordingly, this unit is defined as disturbed and/or developed lands, consisting mainly of fill, and often where underlying or original soils can no longer be distinguished. The soil in the vicinity of the plant is sandy loam to a depth of 13 feet. Below this is a layer of compacted blue clay from 2 to 8 feet thick. To the east of the facility are original deposits classified as Dickinson soils. The topsoil is characterized by very dark brown, very dark gray and dark brown friable fine sandy loam. The subsoil is characterized by very dark grayish

brown, dark brown and yellowish brown friable fine sandy loam in the upper part and yellowish brown loamy sand in the lower part. The underlying material is principally brown sand to a depth of 60 inches (PCSWCD, 1992).

No site-specific geologic information was available, but in the vicinity of the Caterpillar facility, the surficial geology consists of Quaternary till. This is primarily sandy and slightly clayey silty till divided into two beds, often with intercalated lenses of sand and gravel. The entire land surface of Peoria County consists of unconsolidated glacial deposits, or drift, of Pleistocene (Wisconsinan) age, as well as alluvium derived from subsequent erosion of glacial materials by water (Bergstrom, 1956).

The uppermost bedrock beneath the glacial drift at the facility is Silurian in age. The rocks consist of limestones and dolomites with interbedded calcareous siltstones, and the total thickness may be greater than 250 feet. Beneath the Silurian rocks are dark gray to pale greenish-gray Ordovician shales, which are only identified in well records (Bergstrom, 1956).

2.6.4 Ground Water

In the vicinity of the facility, water may be supplied from Pleistocene sand and gravel deposits or from upper bedrock limestone of the Keokuk and Burlington Formations, which are Mississippian in age. Close proximity to the Illinois River produces sand and gravel aquifers which are highly permeable and an excellent source of water. Along the Illinois River in the Peoria region, the Sankoty sand and younger glacial outwash deposits are among the most prolific aquifers in the state (Bergstrom, 1956). The Sankoty sand, which forms a thick fill in and along the Illinois River valley, is the principal aquifer for municipal and industrial supplies. The thickness of this sand varies from 50 feet to 150 feet along the Illinois River, and may reach a maximum of up to 300 feet along the uplands to the west. Ground water flow at the facility is to the south. The deep wells are developed in dolomites of the Galena-Platteville Formations which are Ordovician in age (Bergstrom, 1956).

The Caterpillar facility occupies 608 acres in an industrial area in Mapleton, Illinois. Mapleton has a population of about 220. Caterpillar employs about 800 people.

The Caterpillar facility is bordered on the north by U.S. Route 24/Illinois Route 9 and the Village of Mapleton, on the west by open land and farmland, on the south by the Illinois River, a barge terminal and warehouse, and on the east by two chemical plants. The nearest school, Mapleton School, is located about 0.5 mile north of the facility. Facility access is controlled by fencing, security guards and video-monitoring (Caterpillar, 1992a). The nearest surface water body is the Illinois River, located on the south property line of the facility and is used for recreational, industrial, agricultural, and municipal water supply purposes. Other surface water bodies in the area include the Little Lamarsh Creek and the Pond of Lily Lake.

The Little Lamarsh Creek runs north and south, through the center of the Caterpillar property, between Buildings B and D and drains into the Illinois River. The Pond of Lily Lake is located approximately 1 mile southwest of Caterpillar's Building D and is on the north side of the Illinois River. Wetlands are abundant in the area. The entire Caterpillar site was originally wetlands and was altered for the current land use (USDA, 1992). There are no ground water wells in the vicinity of the facility. The nearest ground water wells are in the Village of Mapleton, approximately 0.5 mile from Caterpillar.

3.0 SOLID WASTE MANAGEMENT UNITS

This section describes the ten SWMUs identified during the PA/VSI. The following information is presented for each SWMU: description of the unit, dates of operation, wastes managed, release controls, history of documented releases, and RAI observations.

SWMU 1

Waste Sand Landfill Area

Unit Description:

The Waste Sand Landfill Area is an 82-acre landfill located in the southern section of the Caterpillar plant property. The landfill manages foundry sand from the Mapleton plant, consisting of core sand and waste foundry sand. Waste sand and broken cores (sand) are delivered to the landfill by trucks, scrapers and other hauling equipment. The waste materials are moved into place and compacted using common earthworking equipment. This landfill area also accepts dust waste from the facility's Baghouse Dust Collectors (SWMU 6). The total capacity of the landfill is greater than 2 million cubic yards. The landfill covers an area of approximately 2,100 feet by 1,500 feet (see Photograph No. 1)

Date of Startup:

The unit began operations in the mid-1970s.

Date of Closure:

The unit is currently operational and is permitted by the State of Illinois as a Solid Waste Disposal Site. The estimated year for final closure is 1995.

Wastes Managed:

The unit manages waste sand, broken cores (sand), and dust waste. Caterpillar claims that this waste is nonhazardous (Caterpillar, 1992b). IEPA regulates this waste as nonhazardous special waste (IEPA, 1988b, 1989). Hazardous constituent analyses for this waste were not provided by Caterpillar. The Waste Sand Landfill Area has no monitoring wells which may indicate whether hazardous constituents

are disposed there (IEPA, 1990a). Hence, no waste designation has been provided.

Release Controls: The site was originally prepared by constructing levees on all sides and stockpiling the virgin soil for final cover. This unit has no liner. No monitoring wells are located at this unit.

History of Documented Releases: No releases from this unit have been documented.

Observations: The unit appears to be clean and well kept. No visual sign of releases was observed.

SWMU 2 Former Hazardous Waste Drum Storage Area

Unit Description: The Former Hazardous Waste Drum Storage Area is surrounded by an 8-foot fence and is located on the south side of Building Q. The area consists of an all gravel cover and occupies a space of approximately 80 feet by 80 feet. This area is no longer active (see Photograph No. 2).

Date of Startup: It is estimated to be 1967.

Date of Closure: The unit is inactive; it is unknown when it became inactive. It is intended to go through RCRA closure in 1992.

Wastes Managed: Hazardous wastes have been stored in this area, but according to a facility representative, no records are available to indicate which specific wastes were stored. The unit could have managed waste refractory coating (D001, F002, U226), waste resins (D001, D003, F002, U122), waste core catalyst (D001), waste janitorial products

(D001, D002), spent solvent (F002), and waste off-specification chemical (U226).

Release Controls: No release controls were observed. Drums were originally stored on a gravel covered area.

History of Documented Releases: No releases from this unit have been documented.

Observations: There were no drums left in this area. No visual signs of release were observed.

SWMU 3 Indoor Hazardous Waste Drum Storage Area

Unit Description: The Indoor Hazardous Waste Drum Storage Area is located inside Building V. It consists of a concrete floor enclosed by two adjacent walls and a single strand chain-type fence. The area of this unit is approximate 30 feet by 60 feet. (See Photograph No. 3).

Date of Startup: It is estimated to be 1967.

Date of Closure: The unit is active. It is intended to go through RCRA closure in 1992.

Wastes Managed: Hazardous wastes have been stored in this area, but no records are available to indicate which specific wastes were stored (Caterpillar, 1992a). The unit could also have managed waste refractory coating (D001, F002, U226), waste resins (D001, D003, F002, U122), waste core catalyst (D001), waste janitorial products (D001, D002), spent solvent (F002), waste off-specification chemical (U226), waste oil/grease (D008), and capacitors and transformers containing PCBs.

Release Controls: The unit is inside, on a concrete floor.

History of Documented Releases: No releases from this unit have been documented.

Observations: At the time of inspection, the unit contained approximately 70 drums of waste, all of which were stored on wooden skids. A brief examination of the area showed the drums containing waste oil (D008), waste grease (D008), waste resin solutions (D001, D002, F002, U122), waste janitorial products (D001, D002), and pesticide. No visual signs of releases were observed.

SWMU 4

Waste Oil Sump Area

Unit Description: The Waste Oil Sump Area is located in Building V. It is a concrete pit where waste oil is obtained from changing oil in various vehicles. The opening appears to be 8 feet by 8 feet by 3 feet deep. The waste oil is pumped out of the sump into 55-gallon drums and is transported to various waste oil recyclers. Waste oil/grease (D008 and nonhazardous) is also generated from various types of machinery (see Photograph No. 4).

Date of Startup: It is estimated to be the early 1980s.

Date of Closure: The unit is active.

Wastes Managed: The unit manages waste oil/grease (D008) and nonhazardous waste oil/grease.

Release Controls: The unit is indoors and constructed of concrete.

History of Documented Releases: No releases from this unit have been documented.

Observations: The unit contained approximately 15 drums at the time of the VSI. Some of the drums contained nonhazardous waste oil. No visual signs of release were observed.

SWMU 6

Facility Baghouse Dust Collectors

Unit Description: The Facility Baghouse Dust Collectors are an air pollution control system, used to control solid waste particulate emissions to the atmosphere in the facility's process areas. The baghouses are constructed of 10-gauge mild steel and the bags are made of polyester felt. The baghouses are located in three areas: Melting (30 units), Finishing (13 units), and 3500 Cell Area (5 units). The total capacity of the baghouses by area are Melting, 460,000 cubic feet per minute (cfm); Finishing, 485,000 cfm; and 3500 Cell Area, 125,000 cfm. The waste particulates captured in the collectors are discharged downward to hoppers at the bottom of each collector. The waste particulates are then discharged onto a conveyor system, which transports the waste particulates to a final storage hopper. The waste particulate collected in the hopper is then mixed with waste sand and water and taken to SWMU 1 (see Photograph No. 6).

Date of Startup: It is estimated to be 1967.

Date of Closure: This unit is active.

Wastes Managed: This unit manages dust waste from the foundry process. Caterpillar claims that this waste is nonhazardous (Caterpillar, 1992b). IEPA regulates the dust waste as a nonhazardous special waste (IEPA, 1988b, 1989). Hazardous constituent analyses for this waste was not provided by Caterpillar. Hence, no waste designation is given.

Release Controls: There were no release controls observed.

History of Documented Releases:	No releases from the unit have been documented.
Observations:	The dust collectors appeared sound and well kept. No visual signs of releases were observed.
SWMU 7	Wastewater Treatment System
Unit Description:	<p>The Wastewater Treatment System is used to clean up mill water from the foundry process and sanitary wastewater before it is discharged into the Illinois River. Caterpillar's combined industrial and sanitary wastewater treatment system has a maximum design capacity of 1 million gallons per day. It is located inside Building RR.</p> <p>Caterpillar's wastewater treatment facility is extensive and constructed of a variety of materials. The most common materials are concrete and steel. The facility generated oil skimmings and sludge. There are 6,000 square feet of floor area where the sludge is deposited during cleanout of the treatment process. The sludge consists of solids which settle out during the treatment process. The sludge consists mainly of waste sand and grinding dust (see Photographs No. 7, 8, and 9).</p>
Date of Startup:	The system was started in the mid-1970s.
Date of Closure:	The unit is active.
Wastes Managed:	This unit manages off-specification wastewater treatment plant chemicals (D001, D002) and dewatered sludge (nonhazardous).
Release Controls:	The system is inside a building with a concrete floor.
History of Documented Releases:	No releases from the unit have been documented.

Observations: The unit appeared sound and well kept. No visual signs of releases were observed.

SWMU 8 Former Hazardous Waste Drum Storage Marshalling Area

Unit Description: The Former Hazardous Waste Drum Storage Marshalling Area is located inside Building B, alongside the northern wall. The unit occupies an area of approximately 8 feet by 40 feet of concrete floor. This area is no longer in use. It was originally used as a temporary drum drop-off storage area before the drums were moved again to a more permanent storage area. Storage for one to two days is considered temporary storage by the Caterpillar personnel (see Photograph No. 10).

Date of Startup: It is estimated to be 1967.

Date of Closure: The unit is inactive; it is unknown when it became inactive. It is intended to go through RCRA closure in 1992.

Wastes Managed: The unit has stored spent solvent (F002), waste off-specification chemical (U226), and waste resins (D001, D002, F002, U122) (IEPA, 1985). Other than what was just described, other hazardous waste may have been stored in this area, but no records are available to indicate which specific wastes were stored (Caterpillar, 1992a). Other wastes may have included waste refractory coating (D001, F002, U226), waste core catalyst (D001), and waste janitorial products (D001, D002).

Release Controls: The unit is inside a building on a concrete floor.

History of Documented Releases: No releases from the unit have been documented.

Observations: There were no drums of waste in this area. No visual signs of release were observed.

SWMU 9

Waste Scrubber Liquor Discharge Tank Area

Unit Description: The Waste Scrubber Liquor Discharge Tank Area discharges waste triethylamine liquor through pipes, by gravity, from scrubbers located on the second floor to aboveground storage tanks located on the first floor (basement level). The tanks are indoors and on a concrete floor. The scrubber liquor is transferred from the storage tanks to a highway tanker truck by hauling it in a small, in-house (approximately 400-gallon) tanker. The waste liquor is then transported to Clean Harbors of Chicago, Illinois for aqueous organic treatment (Caterpillar, 1992b).

Date of Startup: It is estimated to be 1967.

Date of Closure: The unit is active.

Wastes Managed: This unit manages waste triethylamine scrubber liquor (D002).

Release Controls: The USTs are equipped with leak detection devices.

History of Documented Releases: No releases from the unit have been documented.

Observations: During the VSI, two triethylamine product USTs were represented as this unit. Information gained after the VSI determined the two USTs were misidentified (Caterpillar, 1992b). The room where this unit is located was not observed during the VSI.

SWMU 10**Phenolic Wastewater Storage Tank**

Unit Description: The Phenolic Wastewater Storage Tank was located outdoors, along the west wall of Building B. The unit stored nonhazardous phenolic wastewater that was generated during the core manufacturing process. According to a facility representative, this aboveground tank is believed to have had a capacity greater than 500 gallons and was constructed of steel. There was no concrete pad associated with this unit.

Date of Startup: The unit began operations in the mid-1970s.

Date of Closure: The unit was removed from the facility in the early 1980s.

Wastes Managed: The unit managed phenolic wastewater. According to Illinois Disposal Permit No. 781475 issued to the facility, the phenolic wastewater was nonhazardous (Caterpillar, 1992d).

Release Controls: The unit had no release controls.

History of Documented Release: According to a facility representative, some overflows occurred at this unit. Nonhazardous phenolic wastewater was released to the soil beneath and around the unit. Information regarding dates, amounts, and remedial actions associated with these releases was not available.

Observations: The unit no longer exists at the facility. This SWMU was not identified until after the VSI; therefore, its location was not observed.

4.0 AREAS OF CONCERN

RAI identified four AOCs during the PA/VSI. These are discussed below and their locations are shown on Figure 3.

AOC 1

Underground Storage Tank Split-Pipeline Leak Area

On December 1, 1982, there was a gasoline pipeline leak. This area is located immediately south of Building B. The leak occurred from a split in a pipe that fed gasoline from an UST into pumps for vehicles. The line was shut off. The exact volume of the spill is not known. The leak was reported to NRC on December 1, 1982. According to a facility representative, sampling and any necessary removal and proper disposal of soil is scheduled for the near future (Caterpillar, 1992a). Until remediation is completed and approved by IEPA, the spill is considered an AOC.

AOC 2

Sulfuric Acid Leak Area

On November 7, 1990, there was a sulfuric acid leak from an acid feed line for the wastewater treatment plant, outdoors of Building RR. The leak was reported to NRC on the same day. The leak had contaminated soil in the immediate area. The maximum amount of sulfuric acid released was 2,400 pounds. Thirty 55-gallon drums of contaminated material were removed by Caterpillar personnel and shipped out (Caterpillar, 1992d). There is no documentation of (1) where the soil was removed, (2) sampling results to confirm that no contamination exists, or (3) IEPA approval; therefore this spill area is considered an AOC (see Photograph No. 11).

AOC 3**Abandoned Underground Storage Tank Leak Area**

In mid-January 1992, Caterpillar detected a gasoline leak in what appeared to be an abandoned UST. This incident occurred just before RAI conducted the VSI and minimal information is available regarding the leak. Based on some tests performed on site, some contamination was detected. The nature of the tests is not known. It is understood that Caterpillar intends to perform further testing and to remediate as required. The incident was reported to the Illinois Emergency Service and Disaster Agency (IESDA) who then notified IEPA about the release. No further information was given to RAI regarding this release (Caterpillar, 1992c).

AOC 4**Diesel Fuel Truck Saddle Tank Spill Area**

On December 19, 1991, a truck (not belonging to Caterpillar) had an accident at the Caterpillar facility. As a result of the accident, a diesel fuel saddle tank was ripped away from the truck causing a diesel fuel spill which contaminated the soil in that area. The owner of the truck contracted a spill response company to clean up the area. Some contaminated soil was removed and disposed of by the spill response company. There is no documentation of sampling or where the contaminated soil was shipped (Caterpillar, 1992a).

5.0 CONCLUSIONS AND RECOMMENDATIONS

The PA/VSI identified ten SWMUs and four AOCs at the facility. Background information on the facility's location, operations, waste generating processes, history of documented releases, regulatory history, environmental setting, and receptors is presented in Section 2.0. SWMU-specific information, such as the unit's description, dates of operation, wastes managed, release controls, history of documented releases, and observed condition, is discussed in Section 3.0. AOCs are discussed in Section 4.0. Following are RAI's conclusions and recommendations for each SWMU and AOC. Table 3 identifies the SWMUs and AOCs at the Caterpillar facility and recommended further actions.

SWMU 1

Waste Sand Landfill Area

Conclusions:

The unit is currently operational and is permitted by the State of Illinois as a Solid Waste Disposal Site. The unit manages waste sand and dust. Caterpillar claims that this waste is nonhazardous (Caterpillar, 1992b). IEPA claims that the waste is a nonhazardous special waste (IEPA, 1988b, 1989). Hazardous constituent analyses for this waste and a copy of the current special waste disposal permit application were not provided by Caterpillar. This unit has no monitoring wells which may indicate whether hazardous constituents are disposed there (IEPA, 1990a). This unit has no liner. No documented releases from this unit have occurred. The potential for release of hazardous constituents to ground water, surface water, air, or on-site soils from this unit is moderate to high since the hazardous constituent content in the waste disposed in this unit is unknown.

Recommendations:

RAI recommends soil sampling to determine if hazardous constituent contamination does exist at this unit. If contamination is found, ground water sampling is recommended. RAI also recommends that hazardous constituent analyses be performed on the waste sand and dust.

RELEASED
DATE 6/24/00
RIN #
INITIALS WV

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TABLE 3

SWMU AND AOC SUMMARY

<u>SWMU</u>	<u>Dates of Operation</u>	<u>Evidence of Release</u>	<u>Recommended Further Action</u>
1. Waste Sand Landfill Area	Mid-1970s to present	None	Perform soil sampling to determine if hazardous constituent contamination does exist. If so, then ground water sampling is recommended. Perform hazardous constituent analyses on waste sand and dust.
2. Former Hazardous Waste Drum Storage Area	1967 to unknown	None	Complete RCRA closure as planned.
3. Indoor Hazardous Waste Drum Storage Area	1967 (estimated) to present	None	Complete RCRA closure as planned.
4. Waste Oil Sump Area	Early 1980s to present	None	No further action is recommended at this time.
5. Hazardous Waste Drum Storage Area	1967 (estimated) to present	None	Complete RCRA closure as planned.
6. Facility Baghouse Dust Collectors	1967 (estimated) to present	None	Perform waste analysis of waste dust to determine if hazardous. If so, sampling may be necessary of all environmental media.

DATE 6/29/92
 RIN # 101
 INITIALS MD

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TABLE 3 (continued)

SWMU AND AOC SUMMARY

<u>SWMU</u>	<u>Dates of Operation</u>	<u>Evidence of Release</u>	<u>Recommended Further Action</u>
7. Wastewater Treatment System	Mid-1970s to present	None	No further action is recommended at this time.
8. Former Hazardous Waste Drum Storage Marshalling Area	1967 (estimated) to unknown	None	Complete RCRA closure as planned.
9. Waste Liquor Scrubber Discharge Tank Area	1967 (estimated) to present	None	No further action is recommended at this time.
10. Phenolic Wastewater Storage Tank	Mid-1970s to early 1980s	According to the facility representative, overflows to soil occurred at this time.	Soil sampling should be conducted to determine if contamination from previous releases occurred.
<u>AOC</u>	<u>Dates of Operation</u>	<u>Evidence of Release</u>	<u>Recommended Further Action</u>
1. Underground Storage Tank Split-pipeline Leak Area	1982 to present	UST Gasoline Leak December 1, 1982	Soil testing and tank integrity testing; remediation if necessary.
2. Sulfuric Acid Leak Area	1990 to present	Sulfuric Acid Leak November 7, 1990	Soil testing and remediation if necessary.

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TABLE 3 (continued)

SWMU AND AOC SUMMARY

<u>AOC</u>	<u>Dates of Operation</u>	<u>Evidence of Release</u>	<u>Recommended Further Action</u>
3. Abandoned Underground Storage Tank Leak Area	Mid-January 1992 to present	UST Gasoline Leak, January 1992	Soil testing and tank integrity testing; remediation if necessary.
4. Diesel Fuel Truck Saddle Tank Spill Area	One-time spill 1991	Broken Saddle Tank on Truck December 1991	Soil testing and remediation if necessary.

RELEASED
DATE 1/29/00
RIN # 100
INITIALS SP

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DATE 6/29/92
RIN #
INITIALS WW

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SWMU 2

Former Hazardous Waste Drum Storage Area

Conclusions:

The unit is no longer active. Hazardous waste was originally stored on gravel- covered ground which is surrounded by an 8-foot fence. This unit is intended to go through formal RCRA closure in 1992. The potential for future release of hazardous constituents to ground water, surface water, air, or on-site soils is low. The past potential for release of hazardous constituents to on-site soils was low to moderate because the soil was unprotected, although there has been no history of documented releases. The past potential for release of hazardous constituents to ground water, surface water, or air is low because the waste was stored in drums and if there was a spill it would be small in quantity.

Recommendations:

RAI recommends the facility complete RCRA closure as planned.

SWMU 3

Indoor Hazardous Waste Drum Storage Area

Conclusions:

This unit is active and stores drums containing hazardous wastes. The waste is stored indoors, on a concrete floor. No documented releases from this unit have occurred. This unit is intended to go through formal RCRA closure in 1992. The potential for release of hazardous constituents to ground water, surface water, air, or on-site soils from this unit is low.

Recommendations:

RAI recommends the facility complete RCRA closure as planned.

SWMU 4

Waste Oil Sump Area

Conclusions:

This unit is located indoors and the area is constructed of concrete. No documented releases from this unit have occurred. The potential

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for release of hazardous constituents to ground water, surface water, air, or on-site soil is low.

Recommendations:

RAI recommends no further action for this unit.

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DATE 6/29/02
RIN #
INITIALS W/V

SWMU 5

Hazardous Waste Drum Storage Area

Conclusions:

This unit is outdoors and consists of a concrete floor with a 4-inch-high curb around its perimeter. Three walls and the roof are made of metal and the fourth side is a cyclone-type fence. No documented releases from this unit have occurred. This unit is intended to go through formal RCRA closure in 1992. The potential for release of hazardous constituents to ground water, surface water, air, or on-site soils from this unit is low.

Recommendations:

RAI recommends the facility complete RCRA closure as planned.

SWMU 6

Facility Baghouse Dust Collectors

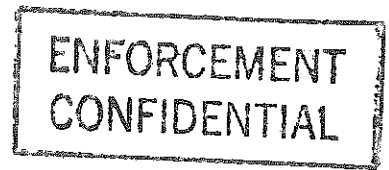
Conclusions:

The dust collected from this unit is discharged into a storage hopper where it is mixed with sand and water and transported to SWMU 1. No documented releases from this unit have occurred. The potential for release of hazardous constituents to ground water, surface water, air, or on-site soils from this unit is moderate to high since the waste designation is unknown and no release controls were observed.

Recommendations:

RAI recommends that the waste be sampled for hazardous constituents. If the waste is determined to be hazardous, sampling at this unit for all environmental media may be necessary.

RELEASED
DATE 6/27/00
RIN #
INITIALS WV



SWMU 7

Wastewater Treatment System

Conclusions:

This system cleans mill water from the foundry process and sanitary sources, and discharges the effluent into the Illinois River. The treatment system is located inside a building with concrete floors and pit walls. No documented releases from this unit have occurred. The potential for release of hazardous constituents to ground water, surface water, air or on-site soils from this unit is low.

Recommendations:

RAI recommends no further action for this unit.

SWMU 8

Former Hazardous Waste Drum Storage Marshalling Area

Conclusions:

This unit is no longer active. Hazardous waste was originally stored indoors, on a concrete floor. No documented releases from this unit have occurred. This unit is intended to go through formal RCRA closure in 1992. The potential for release of hazardous constituents to ground water, surface water, air, and on-site soils from this unit is low.

Recommendations:

RAI recommends the facility complete RCRA closure as planned.

SWMU 9

Waste Scrubber Liquor Discharge Tank Area

Conclusions:

The waste triethylamine scrubber liquor (D002) flows through pipes, by gravity, from scrubbers located on the second floor to aboveground storage tanks located on the first floor (basement level). The tanks are indoors and on a concrete floor. The potential for release of hazardous constituents to ground water, air, surface water, or on-site soils from this unit is low. The scrubber liquor is transferred from the storage tanks to the highway tanker truck by hauling it in a small, in-house (approximately 400 gallon) tanker.

Recommendations: RAI recommends no further action for this unit.

SWMU 10

Phenolic Wastewater Storage Tank

RELEASED
DATE 6/29/00
RIN #
INITIALS MV

Conclusions: This unit stored phenolic wastewater prior to on-site biological treatment. Overflows to exposed soil occurred at the unit. The unit was removed from the facility in the early 1980s. The current potential for release of hazardous constituents to ground water, surface water, air and on-site soils is low or nonexistent.

Recommendations: Soil sampling should be conducted to determine if contamination from the previous releases has occurred.

AOC 1

Underground Storage Tank Split-Pipeline Leak Area

Conclusions: The leak occurred from a split in a pipe that fed gasoline from an UST into the vehicles. The split in the pipe occurred above the UST, about 10 inches below grade, releasing gasoline to the on-site soils. The potential for release of hazardous constituents to surface water and air is low because the split pipe is considered a one-time incident. The potential for release of hazardous constituents to ground water is moderate. According to a facility representative, sampling and any necessary removal and disposal of soil is scheduled for the near future (Caterpillar, 1992a).

Recommendations: The soil surrounding the spill area should be tested for contamination. If soil contamination is discovered, the ground water should be tested for contamination. In addition, the tank integrity should be investigated. Remediation of the area should be performed if necessary.

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DATE 6/29/00
RIN #
INITIALS WV

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AOC 2

Sulfuric Acid Leak Area

Conclusions:

The leak occurred outdoors, and had contaminated an area outside Building RR. The area was cleaned up by Caterpillar personnel, but there is no documentation of the cleanup procedures. The potential for releases of hazardous constituents to ground water, surface water, air, or on-site soils is low or nonexistent, because this was an unusual incident and maintenance discipline should eliminate recurrence of the problem.

Recommendations:

The soil in this area should be tested for contamination. Remediation of the area should be performed if necessary.

AOC 3

Abandoned Underground Storage Tank Leak Area

Conclusions:

This leak occurred approximately one week before RAI conducted the VSI, and the information available was minimal. A gasoline leak was detected in what appeared to be an abandoned underground storage tank. Based on preliminary tests, contamination of the soil was detected. Further tests and remediation will be performed as required. Not knowing what was done to stop the leak or to prevent the leak from recurring, it seems apparent that the potential for future releases to soil is moderate to high. The potential for release to ground water is moderate because contaminants in the soil may leach to the ground water. The potential for releases to air and surface water is low because the tanks are underground.

Recommendations:

The soil surrounding the tank should be tested for contamination. In addition, the tank's integrity should be investigated. Remediation of the area should be performed if necessary.

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DATE 10/24/10
RIN #
INITIALS WV

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AOC 4

Diesel Fuel Truck Saddle Tank Spill Area

Conclusions:

The spill occurred when a diesel fuel saddle tank was accidentally ripped away from a truck. The spill contaminated the soil next to the roadway. Some contaminated soil was removed and disposed of by an outside spill response company. The potential for release to surface water or air is low or nonexistent due to the nature of the waste and the distance to surface water. The potential for release to ground water is moderate because there was no evidence of sampling results.

Recommendations:

The soil in this area should be tested for contamination. Remediation of the area should be performed if necessary.

REFERENCES

- Bergstrom, Robert, 1956. "Ground Water Geology in Western Illinois," Illinois State Geology Survey, Circular 222, Urbana, Illinois.
- Caterpillar, 1980. EPA Hazardous Waste Permit Application, November 17.
- Caterpillar, 1982. Facility Layout (Figure 2) and Enlarged Facility Layout (Figure 3).
- Caterpillar, 1984a. EPA Hazardous Waste Permit Application, January 31.
- Caterpillar, 1984b. EPA Hazardous Waste Permit Application, December 21.
- Caterpillar 1987. Letter to IEPA-DLPC in response to a Compliance Inquiry Letter dated October 27, 1987, November 20.
- Caterpillar, 1988. Part of general correspondence and attached to this reference letter with a RCRA permit form, November 7.
- Caterpillar, 1989. EPA Hazardous Waste Permit Application, May 5.
- Caterpillar, 1990. National Pollutant Discharge Elimination System (NPDES), 1990. Permit to discharge into waters of the State of Illinois, April 10.
- Caterpillar, 1991. Application for State Construction Permit for addition of sand filter chlorination, June 19.
- Caterpillar, 1992a. FAX information received from Carey French (Caterpillar) in answer to questions she received from Arthur Marshall (RAI) on January 27, 1992, mainly pertaining to SWMUs, spills and environmental receptors, January 30.
- Caterpillar, 1992b. FAX information received from Carey French (Caterpillar) on questions asked during VSI. FAX includes waste records for 1988, 1989, and 1990, February 12.
- Caterpillar, 1992c. Phone conversation between Scott Tajak (RAI) and Carey French (Caterpillar) in reference to a recent gasoline leak, February 25.
- Caterpillar, 1992d. Phone conversation between Scott Tajak (RAI) and Carey French (Caterpillar) in reference to RAI obtaining information about the volume of spills and the amount of soil remediated. This information was received by FAX from Caterpillar, March 31.
- Caterpillar, 1992e. Fax information received by Peter McLaughlin (RAI) from Carey French (Caterpillar), June 15.
- Federal Emergency Management Agency (FEMA), 1983. National Flood Insurance Program, Stark County, Illinois.

- Illinois Environmental Protection Agency (IEPA), 1985. Letter of PCB cleanup approval to Carey French of Caterpillar, Inc, May 6.
- IEPA, 1986. Memorandum from Lyle A. Ray to the Division of Water Pollution Control in reference to Toxic Sampling Inspections, NPDES No. IL0001830, January 23.
- IEPA, 1987. Inspection report, September 10.
- IEPA, 1988a. Inspection report for special waste landfill area, June 6.
- IEPA, 1988b. Inspection report for waste streams, at the Caterpillar plant in Mapleton, Illinois, December 9 and 16.
- IEPA, 1989. Inspection report, July 27.
- IEPA, 1990a. Inspection Report and waste disposition form, May 25.
- IEPA, 1990b. Memorandum from Lyle A. Ray to the Division of Water Pollution Control in reference to Compliance Sampling Inspection Report, NPDES No. IL0001830, December 18.
- IEPA, 1991. Notification form for existing landfills for submittal to the IEPA, Division of Land Pollution Control, March 18.
- National Oceanic & Atmosphere Administration (NOAA), 1990. Climatography of the United States, Peoria, Illinois.
- Peoria County Soil and Water Conservation District (PCSWCD), 1992. Peoria County soils maps and descriptions, Peoria, Illinois.
- U.S. Department of Commerce (USDC), 1968. Climatic Atlas of the United States Government Printing Office, Washington, D.C.
- U.S. Department of Agriculture (USDA), 1992. Phone conversation with John Hubbert (with County Soil and Water Conservation), February 7.
- U.S. Geological Survey (USGS), 1979. Spring Bay Quadrangle, Illinois, 7.5 Minute Topographic Series.

ATTACHMENT A

EPA PRELIMINARY ASSESSMENT FORM 2070-12



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE IL 02 SITE NUMBER ILD 052 664 364

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Caterpillar, Inc.		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER 8826 W. Route 24			
03 CITY Mapleton	04 STATE IL	05 ZIP CODE 61547	06 COUNTY Peoria	07 COUNTY CODE	08 CONG DIST
09 COORDINATES: LATITUDE 40 33 035.N		LONGITUDE 89 44 008.W			
10 DIRECTIONS TO SITE (Starting from nearest public road) The facility is located on Route 24 approximately 7 miles south of Bartonville and 4 miles south of Route 9.					

III. RESPONSIBLE PARTIES

01 OWNER (If known) Caterpillar, Inc.		02 STREET (Business, mailing residential) 100 N.E. Adams			
03 CITY Peoria	04 STATE IL	05 ZIP CODE 61529	06 TELEPHONE NUMBER (309) 675-1000		
07 OPERATOR (If known and different from owner) Caterpillar, Inc.		08 STREET (Business, mailing, residential) 8826 W. Route 24			
09 CITY Mapleton	10 STATE IL	11 ZIP CODE 61547	12 TELEPHONE NUMBER (309) 633-8425		
13 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL: _____ (Agency name) <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER _____ (Specify) <input type="checkbox"/> G. UNKNOWN					
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply) <input checked="" type="checkbox"/> A. RCRA 3010 DATE RECEIVED: 08 / 18 / 80 <input type="checkbox"/> B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: ____ / ____ / ____ <input type="checkbox"/> C. NONE MONTH DAY YEAR MONTH DAY YEAR					

IV. CHARACTERIZATION OF POTENTIAL HAZARD

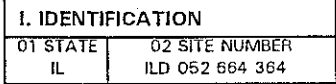
01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES DATE 01 / 22 / 92 <input type="checkbox"/> NO		BY (Check all that apply) <input type="checkbox"/> A. EPA <input checked="" type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ (Specify) CONTRACTOR NAME(S): Resource Applications, Inc.			
02 SITE STATUS (Check one) <input checked="" type="checkbox"/> A. ACTIVE <input type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		03 YEARS OF OPERATION 1967 Present BEGINNING YEAR ENDING YEAR <input type="checkbox"/> UNKNOWN			
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED Waste Refractory Coating (D001, F002, U226), Waste Resins (D001, D003, F002, U122), Waste Core Catalyst (D001, U226), Waste Janitorial Products (D001, D002), Wastewater Treatment Plant Chemicals (D001, D002), Waste 1,1,1-Trichloroethane (F002, U226), Waste Oil/Grease (D008), Waste Triethylamine Scrubber Liquor (D001)					
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION The potential for a hazardous release to the environment from SWMUs 2 through 5 and 7 through 10 is low, since the waste is stored in drums on concrete pads with curbs or indoors on concrete. All releases during the process are collected by baghouses for dust (particulates) and special wet scrubbers for fumes. Wastes stored in SWMUs 1 and 6 have not been designated as hazardous or nonhazardous; hence, potential for release to environmental media is moderate to high from these units. AOC 1 The past potential for releases of hazardous constituent to surface water and air is low and to ground water is moderate to high. AOC 2 The potential for release of hazardous constituents to ground water, surface water, air, or on-site soils is low or nonexistent. AOC 3 The potential for release of hazardous constituents to air and surface water is low. The potential for release to ground water is moderate. AOC 4 The potential for release of hazardous constituents to air and surface water is low. The potential for release to ground water is moderate.					

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents.) <input type="checkbox"/> A. HIGH (Inspection required promptly) <input checked="" type="checkbox"/> B. MEDIUM (Inspection required) <input type="checkbox"/> C. LOW (Inspect on time-available basis) <input type="checkbox"/> D. NONE (No further action needed; complete current disposition form)			
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VI. INFORMATION AVAILABLE FROM

01 CONTACT Kevin Pierard	02 OF (Agency/Organization) EPA Region V	03 TELEPHONE NUMBER (312) 836-4448
04 PERSON RESPONSIBLE FOR ASSESSMENT Arthur Marshalla	05 AGENCY	06 ORGANIZATION Resource Applications, Inc.
		07 TELEPHONE NUMBER (312) 332-2230
		08 DATE 01 / 22 / 92 MONTH DAY YEAR



<p>01 PHYSICAL STATES <i>(Check all that apply)</i></p> <p><input checked="" type="checkbox"/> A. SOLID <input checked="" type="checkbox"/> E. SLURRY</p> <p><input checked="" type="checkbox"/> B. POWDER, FINES <input checked="" type="checkbox"/> F. LIQUID</p> <p><input checked="" type="checkbox"/> C. SLUDGE <input checked="" type="checkbox"/> G. GAS</p> <p><input type="checkbox"/> D. OTHER _____ <i>(Specify)</i></p>	<p>02 WASTE QUANTITY AT SITE <i>(Measures of waste quantities must be independent)</i></p> <p>TON _____</p> <p>CUBIC YARDS- _____</p> <p>NO. OF DRUMS _____</p>	<p>03 WASTE CHARACTERISTICS <i>(Check all that apply)</i></p> <p><input checked="" type="checkbox"/> A. TOXIC <input checked="" type="checkbox"/> H. IGNITABLE</p> <p><input checked="" type="checkbox"/> B. CORROSIVE <input checked="" type="checkbox"/> I. HIGHLY VOLATILE</p> <p><input checked="" type="checkbox"/> C. RADIOACTIVE <input checked="" type="checkbox"/> J. EXPLOSIVE</p> <p><input checked="" type="checkbox"/> D. PERSISTENT <input checked="" type="checkbox"/> K. REACTIVE</p> <p><input checked="" type="checkbox"/> E. SOLUBLE <input checked="" type="checkbox"/> L. INCOMPATIBLE</p> <p><input checked="" type="checkbox"/> F. INFECTIOUS <input checked="" type="checkbox"/> M. NOT APPLICABLE</p> <p><input checked="" type="checkbox"/> G. FLAMMABLE</p>
---	---	--

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE		100 cubic yards/day	
OLW	OILY WASTE		1650 gallons/month	
SOL	SOLVENTS		7000 gallons/month	
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS		450 gallons/year	
IOC	INORGANIC CHEMICALS		660 gallons/year	
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

[illegible]

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

EPA Region 5 RCRA files.



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND
INCIDENTS

I. IDENTIFICATION

01 STATE
IL

02 SITE NUMBER
IID 052 664 364

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

None identified.

01 ☐ B. SURFACE WATER CONTAMINATION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

None identified.

01 ☐ C. CONTAMINATION OF AIR

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

None identified.

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

None identified.

01 ☐ E. DIRECT CONTACT

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

None identified.

01 ☒ F. CONTAMINATION OF SOIL

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

03 AREA POTENTIALLY AFFECTED: Unknown
(Acres)

04 NARRATIVE DESCRIPTION

Based on the four AOCs, further tests are recommended to determine if contamination exists and what areas it covers.

01 ☐ G. DRINKING WATER CONTAMINATION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

None identified.

01 ☐ H. WORKER EXPOSURE/INJURY

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

03 WORKERS POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

None identified.

01 ☐ I. POPULATION EXPOSURE/INJURY

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

None identified.



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND
INCIDENTS

I. IDENTIFICATION

01 STATE
IL

02 SITE NUMBER
ILD 052 664 364

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

None identified.

01 ☐ K. DAMAGE TO FAUNA

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION (Include name(s) of species)

None identified.

01 ☐ L. CONTAMINATION OF FOOD CHAIN

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

None identified.

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

None identified.

01 ☐ N. DAMAGE TO OFF-SITE PROPERTY

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

None identified.

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPS ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

None identified.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

None identified.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

None identified.

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

Based on the four AOCs it seems appropriate to conduct further soil tests to determine the extent of contamination.

V. SOURCES OF INFORMATION (Cite specific references; e.g., state files, sample analysis, reports)

Visual Site Inspection, January 22, 1992.

ATTACHMENT B

VISUAL SITE INSPECTION SUMMARY AND PHOTOGRAPHS

VISUAL SITE INSPECTION SUMMARY

Caterpillar, Inc.
Mapleton, Illinois
ILD 052 664 364

Date: January 22, 1992

Facility Representatives: Robert Kilgo, Corporate, Environmental Dept.
Carey French, Staff Engineer/Facilities Engineering
William E. Schulze, Jr., Utilities Engineering Superintendent

Inspection Team: Arthur Marshalla, Resource Applications, Inc. (RAI)
Scott Tajak, RAI

Photographer: Scott Tajak

Weather Conditions: Rainy, temperature about 40°F

Summary of Activities: The visual site inspection (VSI) began at 9:00 a.m. with an introductory meeting. The inspection team discussed the purpose of the VSI and the agenda for the visit. Facility representatives then discussed Caterpillar's past and current operations, solid wastes generated, and release history. Most of the information was exchanged on a question-and-answer basis.

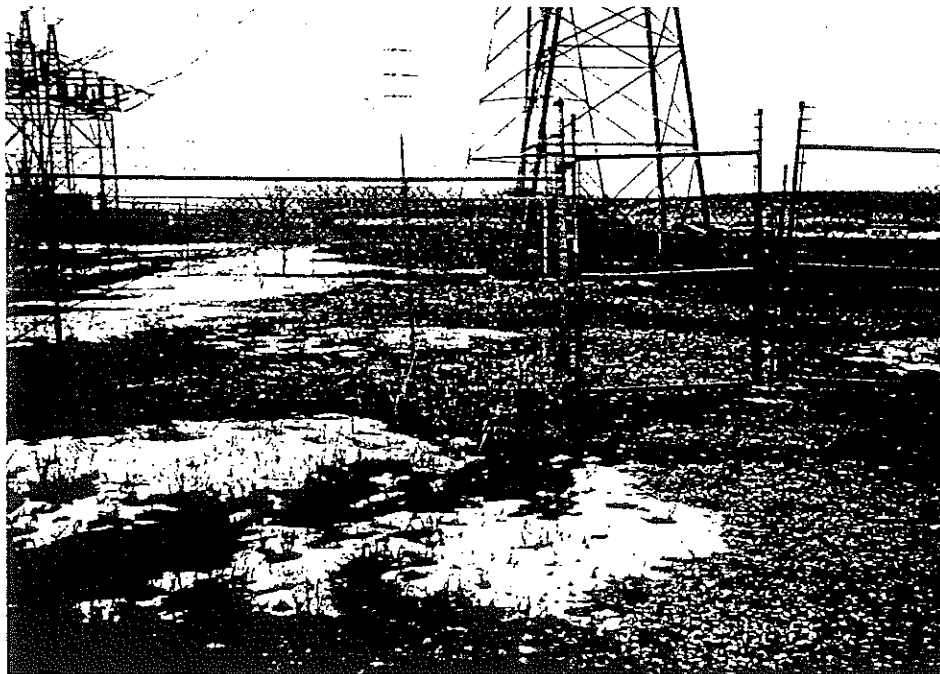
The VSI tour began at 1:00 p.m. Mr. William E. Schulze, Jr. discussed specific operations at each area as we walked through the production areas. The inspection began inside at the main plant (Building D). We walked through the entire production line from the core making area, to the molding area (including machining and tooling) to the steel melting and pouring area, and finally to the finishing area. In addition to the above mentioned standard production line, there is also a special molding line for cylinder liners. The SWMUs observed during the inspection were clean and well maintained.

The tour was concluded at 3:30 p.m. after which the inspection team held a brief exit meeting with Caterpillar representatives. The VSI was completed and the inspection team left the facility at 4:00 p.m.



Photograph No. 1
 Orientation: Southwest
 Description: Waste Sand Landfill Area.

Location: SWMU 1
 Date: 1/22/92



Photograph No. 2
 Orientation: East
 Description: South portion of the fenced-in area of Former Hazardous Waste Drum Storage Area.

Location: SWMU 2
 Date: 1/22/92



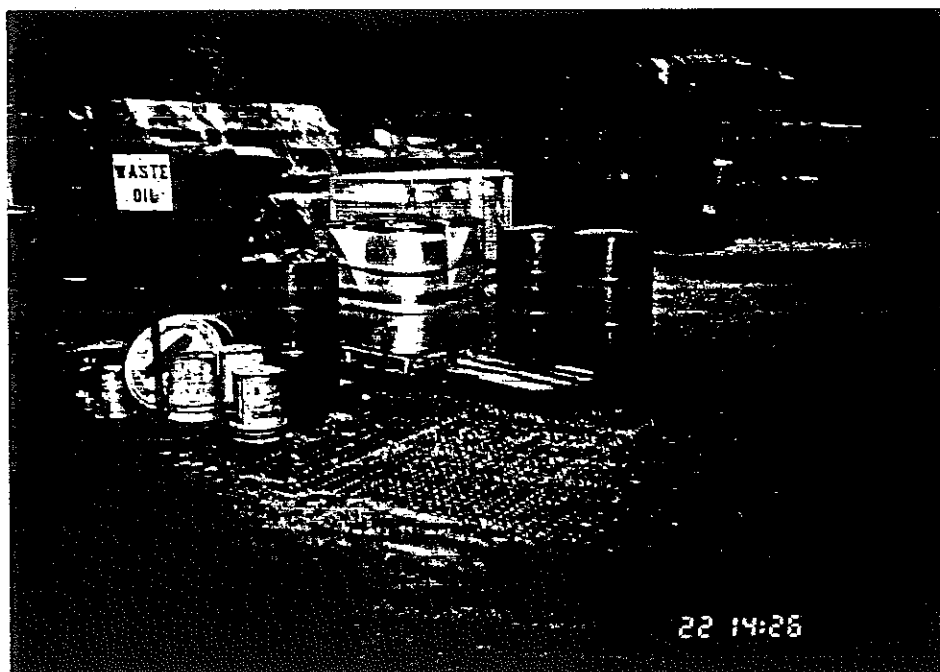
Photograph No. 3

Orientation: South

Description: Chained-in Indoor Hazardous Waste Drum Storage Area.

Location: SWMU 3

Date: 1/22/92



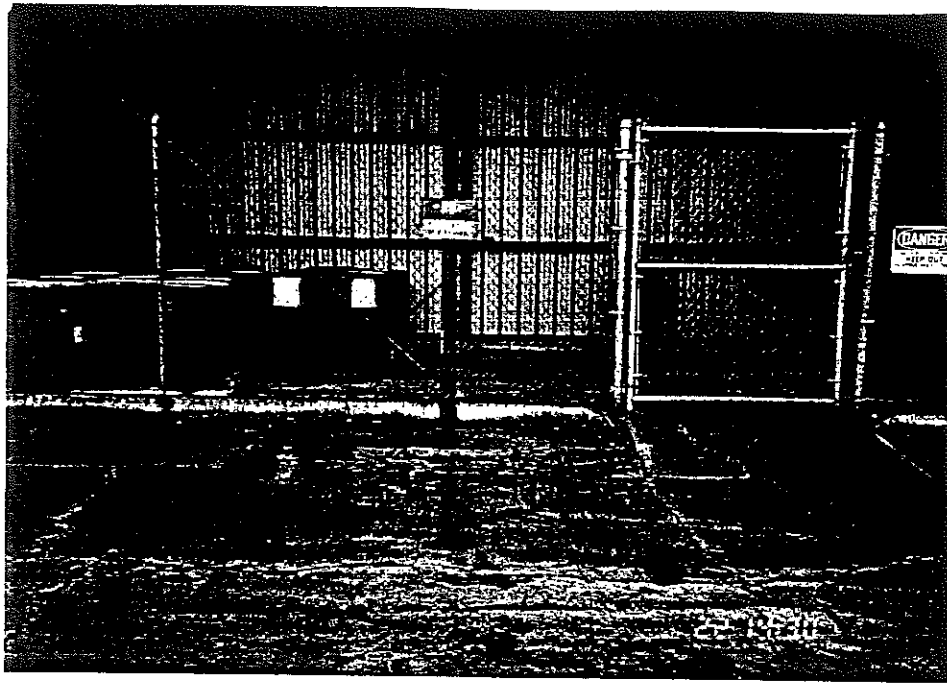
Photograph No. 4

Orientation: West

Description: Waste Oil Sump Area showing floor grating over sump area.

Location: SWMU 4

Date: 1/22/92



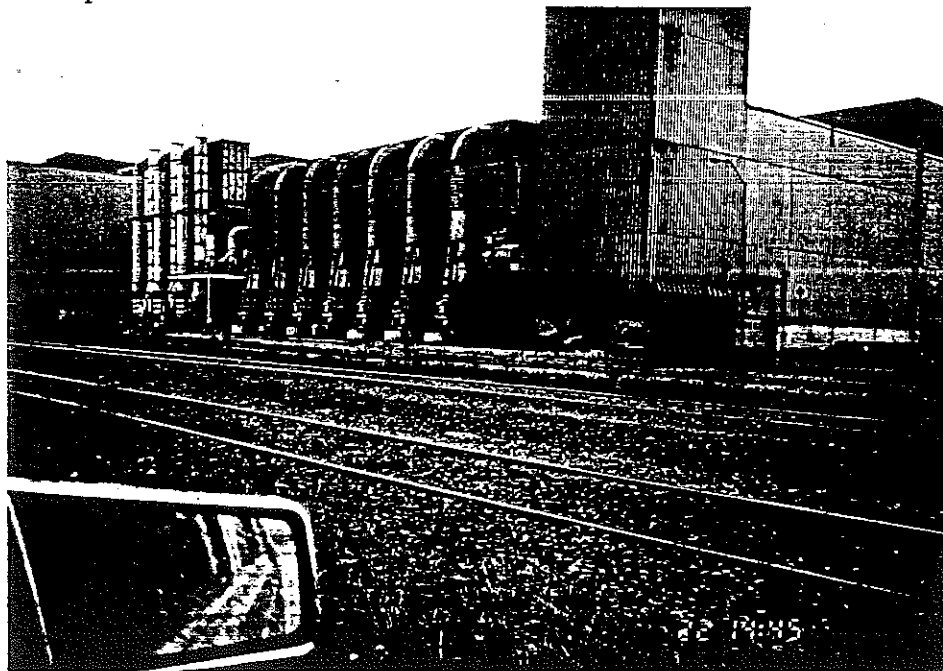
Photograph No. 5

Orientation: South

Description: Hazardous Waste Drum Storage Area showing three-sided enclosure with fenced-in front and concrete pad with curbs.

Location: SWMU 5

Date: 1/22/92



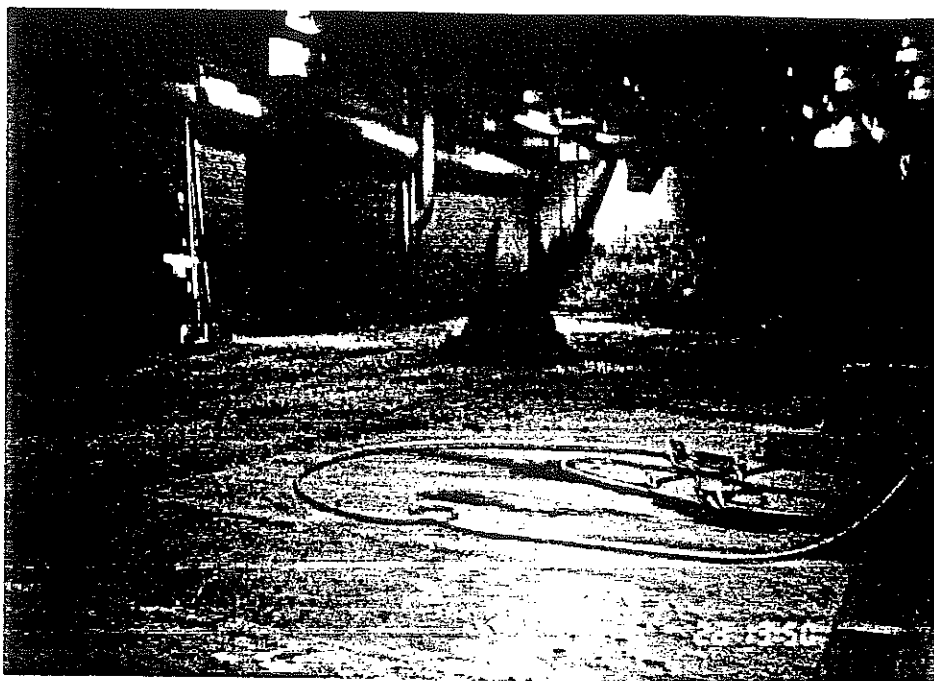
Photograph No. 6

Orientation: Northwest

Description: Facility Baghouse Dust Collectors on south wall of Building B.

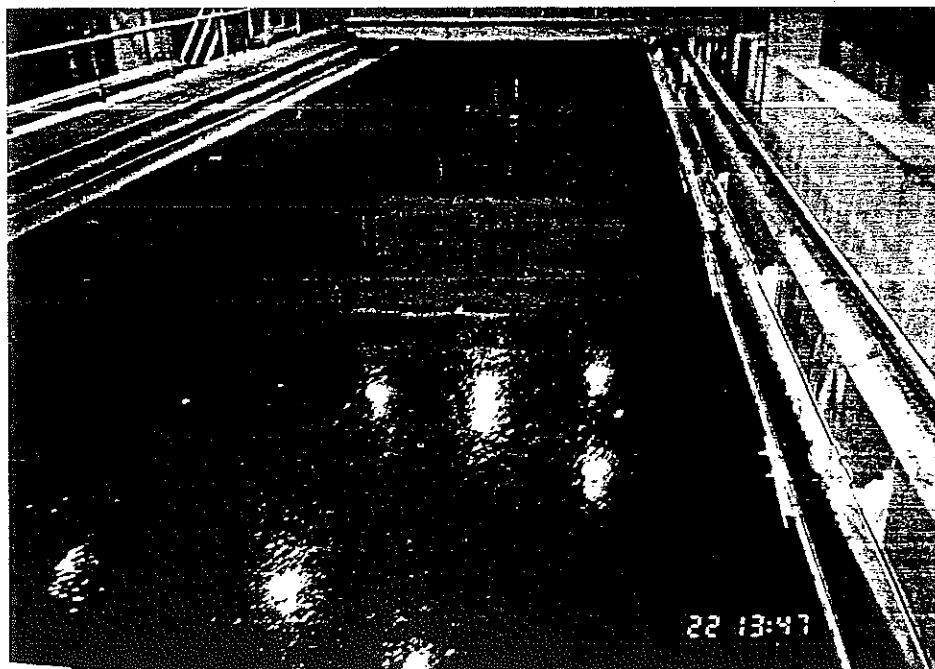
Location: SWMU 6

Date: 1/22/92



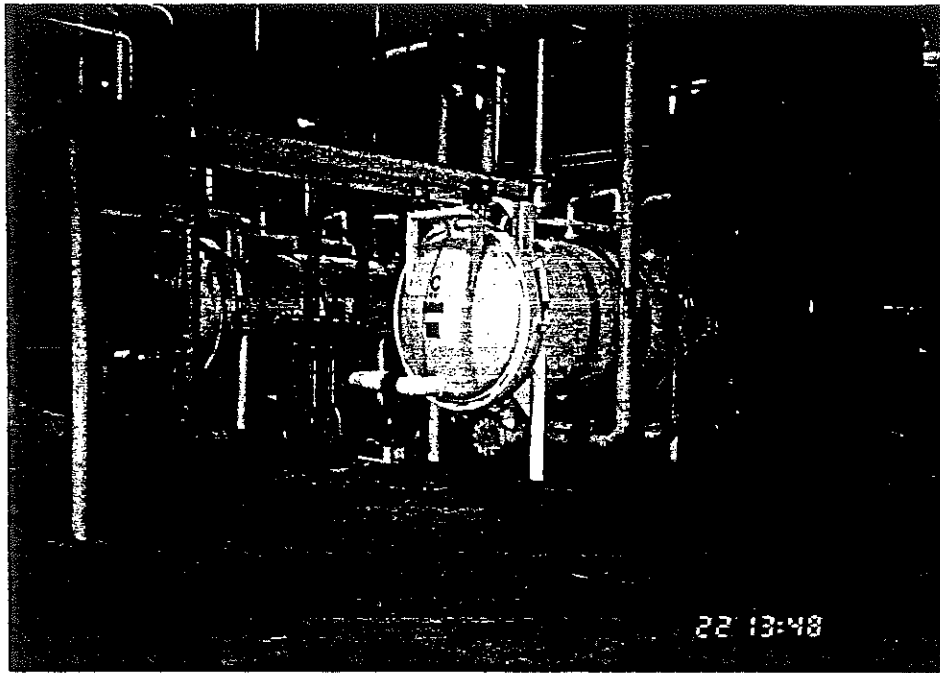
Photograph No. 7
 Orientation: Southeast
 Description: Wastewater Treatment System, sludge bay area.

Location: SWMU 7
 Date: 1/22/92



Photograph No. 8
 Orientation: Southeast
 Description: Wastewater Treatment System, sand filter area.

Location: SWMU 7
 Date: 1/22/92



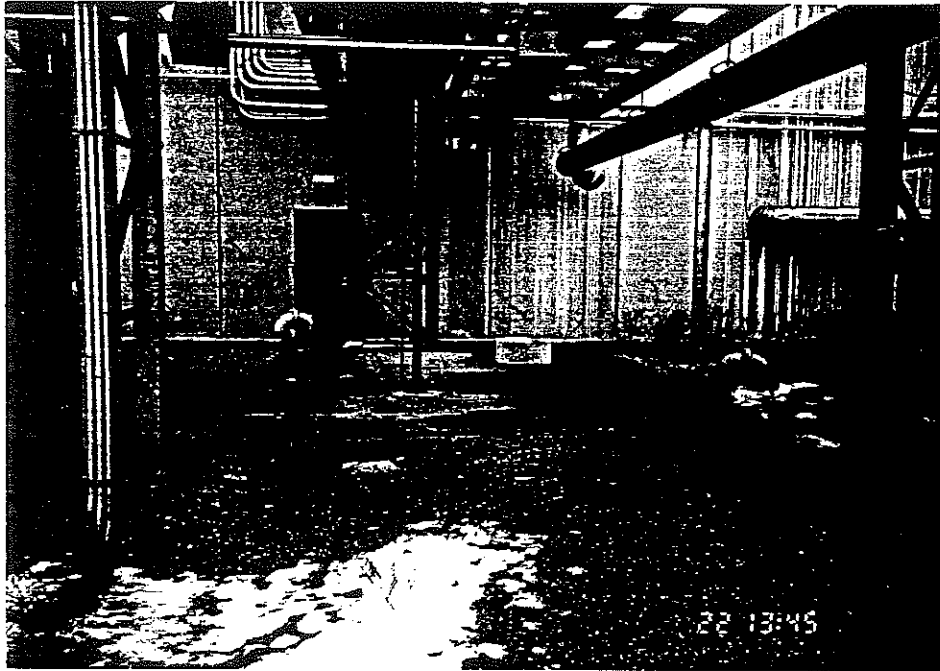
Photograph No. 9
 Orientation: Northwest
 Description: Wastewater Treatment System, carbon filter area.

Location: SWMU 7
 Date: 1/22/92



Photograph No. 10
 Orientation: North
 Description: Former Hazardous Waste Drum Storage Marshalling Area along side the northern wall in Building B.

Location: SWMU 8
 Date: 1/22/92



Photograph No.11
Orientation: East
Description: Location of Sulfuric Acid Leak.

Location: AOC 2
Date: 1/22/92

ATTACHMENT C
VISUAL SITE INSPECTION FIELD NOTES

CAST PARTS

- SAND AS Forming media

several types

Green sand - silica

sea coal
inverm

} outside of casting

mold - internal mold -

cured with gas

polymerized

rigidity - bond between water, sand, &c

mold - is the outside passage

core - forms inside passage

Foundry makes molds and cores as well as product

Only pour grey iron

alloyed grey iron

↳ nickel

↳ molybdenum?

↳ copper

Cast iron is main product

engine - cylinders, liner, con shaft etc.

OEM personnel

880,000 ft²

4 main areas of a foundry

✕ A) Core
2 floors

incoming raw material

- 1) coke sand
- 2) silica sand
- 3) iron - specially

truck unloaded on conveyor

stored in silos

out of silos

mixed sand and iron

distributed to 2nd floor the happens

sand is now wettable mix

shape formed

blow sand into cavity of box

then it is cured via a gas or heat

core cleaned

place refractory coating

see coal

benzene

fills voids provides binder for
metal and sand seal.

liquid coating

dipped - water based

heated/dried

57.

cores - some are in dryers.

First floor - series of core machines
they make 50-60 different parts

Smaller engines assembly in this area.

come off in racks or preassembling into another
called a capsule or assembly.

One casting ~~may~~ may take several different
casting

* (B) Molding Area

- 3 large mold lines
 - a) blocks
 - b) cylinder head
 - c) cylinder liners

(1) Pattern Shop

machine shop.

tooling

core boxes and shapes designs (pattern)

machining

repair work

maintenance shop - equipment care

sheet metal, machining, welding

S.T.

Green sand mold area

half a pattern
flask open both top and bottom
squeeze sand
becomes rigid
pull it off pattern node.
cores put in cavity
then it goes to pouring area.

sand conveying
after coating sand is returned back
screened
added water + binder

cores do not get reused - muffled back into sand
bin

Outside of sand is

landfill - the only thing that stays in
casting - inert material.

- 2 parts
- a) make mold
 - b) sand open
back to molding machine

similar for all 3 green sand

liners sleeves - castings without cores.
more alloying - basically cast iron

pressed casting

molten metal

③ Metal Melting

raw material

by hand

steel scrap from any suppliers or from
machine shops

from
outside
sources

turnings from machining
borings - small chips from cast
iron machining
plate scrap.

50% of every casting returned

runner system to distribute to various
boles to produce good casting

that is all spent metal is returned
to melting

melt in induction furnace

or
arc furnace

a) induction furnace (2)
current on coil
induces current in metal
heat the melt

b) arc furnace (2) hold 24-30 ton
big pot
3 electrodes
stick on arc between inductor and metal
arc - melts metal on contact

c) pig iron (cnd)
24 ton batches
pour it into induction furnace to
bring up to temp and add alloys
hold 65 ton

d) metal holding furnaces - simply holds metal at
temp. so that it could be
distributed in smaller batches

e) dust collection / fume collection
depends upon the area

core area
dry sand - high temp
core processing - wet scrubber
caustic \rightarrow SO₂
acid - TCE

melting area

wet scrubbers
Demister Vessels

river water that is obtained
not drinkable

come in through ventilation

Melting area

baghouse - Furnace

Finishing

baghouse - dry

Back to furnace

from holding
sent to cooling
pit on conveyor

Cooling of casting above 2nd floor
3-4 hours

takes it to

Finishing Operation

Sandfall part

No machining or casting here

- A) Shotblasting
- B) Grinding

chip and grind area
fine may be removed
via hammer or
grinders
manual operation
some automatic
but not much
also unwanted
material off

in with steel shot
surface of casting
break all parts

Stress relieve via heating beams
even cooling

and shotblasting
then ready for shipping

② Stress relief - no ^{final} ^{to be kept} ~~final~~ ^{to be kept} } check
in specialty
automotive repair

day shift - casting
2nd - core
3rd - full production

3 shifts 5 days a week

④ other areas

a) manufacturing experimentation
they can make small rolls
no cleaning

b) mini-roll area
some camshafts & cylinder heads
cleaning, grinding

⑤ 3500 block area
16 cylinder version
made core and roll
bolted together ~~rolls~~
some match in part
it comes out as complete
no upstream gear and rolls

last solid line

~~large masses~~

- assembly of cores

- pour into bucket

- my into bucket to cool

- after cooling, plant it

- chop and feed

- no stress relief have become
of gradual cooling

- ~~is~~ sand to landfill.

see - runs through factory

DOES permit

WWTP

Porter house & heating plant

has not been used in several years

Building N is not in use.

Building R → Sanitary treatment

Drinking water plant

2 water towers

drinking

process water

no wells on site

found to be of poor quality

Building V → receiving building

degraded gravel

stored - damaged waste material

4-16 → ^{SCRA}Loage for drums.

Building P - empty

- originally construction / garage
- part of instant foundry
- costly for very precise parts
- form it out of wax
- was covered ceramic

with monkey wrenches

Building Q - electric

Building 4.1 like "LPG" bottles

4.2 - industrial X-ray building
check for defects

4-6 - small pump house

4-7 " "

4-3-7-5 lagoon

it is settled out

proped to main property

RCA HW storage area within B. } not in use
fence of just south of Q } will go to
down

1) LANDFILL - 82 acres - ~~typical~~ - top engine smaller

2) Pond for slurry material - lagoon

3) 4 RCRA sites

4) Building RR - ~~large~~ - WWTP
special waste

5) SO₂ - TCE scrubbers

waste liquids

TCE scrubbers

pumped in tanks into trucks

and sent

Mossville - East Point

transport SO₂ liquid for reuse

6) Family process chemicals

handled in drum

off-site

incineration

RR - Special Waste

fills

① NRC - RB-free

June 21, 1998

② Anti-leaking solution on concrete (1983) Feb
unknown

③ gasoline - pipeline leak

12/1/8

pipe split - dug up

pipe that fed into pump for vehicle

gas line shut off

4) Inside Building B-4

6/23/82

lating

counterweight

rubber plastic bladder with mercury
discharge - onto floor area
collected mercury

8 to 10 inch concrete

some wood block over concrete

5) Small gasoline storage tank

7/22/82

discharge pipe

gasoline on concrete pad

plugged opening

shortcut / pillars

no release to soil or water

6) WWT - Building RR

11/71

fed acid into some outdoor tank
line

refined acid to pad and
soil

soil sent off-site

own inspection

7) Deember.

clim truck

12/19

ripped off saddle tank

trucking company

they cleaned it up.

a little soil pulled up.

6 - USTs on the property

UST 1 - detection equipment - 70s (check UST FIL)
steel
10,000 ? Pump

UST 2 - EMPTY - FUEL OIL (check UST FIL)

UST 3 - Diesel leak detection

UST 4 - TRIETHYLAMINE - leak detection

acid
portable
by
ring
being
by
same
UST 5 - Triethylene - removed ~~1984~~ ~~1985~~ Prior to May

UST 6 - Core reins Prior to May 85

UST 7 - Hardcore reins - prior to May 85

- ① Tristylamine (TFA) EAST UST ground level
- ② Fertilizer Tank accident/location
and records.
- ③ Gasoline North
~~and~~ Tank left on legs
outside
- ④ Acid Tank area
EAST

- ⑤ Air Filters - inside (RR) - ESE
- ⑥ Carbon Filters NW (RR)
- ⑦ Judge Bay SE (RR)

entry, bleed

⑧ going to be removed
lined concrete
broken
sampling holes

not happen silt

not UST

not Ditch from WWTP
15

(11) SW Landfill - SWMU
filled in at NE corner
hole left in SW corner

(12) near building Y-C
PCB soil remediation
SE

Xy non building
photo developing
water
silver
gonore silver reclaiming

SWMU-2
(12) SEE Haz storage - inactive
50 X 80
ground

SWMU3
(15) South Canal
day storage Area
Approx 30 X 60

SWMU4
(16) Waste Oil Sump
approx 2000
West

SW 11-4

(15) - 111 Active Fly Area
near Hammock
approximately 15 drums.
Concrete
pump.
~~concrete~~ pump - 5 inches
concrete.
South.

(16) North PCB spill
flow is where it was pumped out

(17) - 112 West pumps were
stuck SW

(18) - 113 underground tank UST
out

(19) - 114 Marshaling Area (Accumulator
short tank
South

S X 40
in tanks
North

(23) Basin Tank - North

(24) WWTP (outside)
view

South West

(25) Spill from tank accident (W)

(26) UST - (S & N)

(27) Trucking accident (W)

Fondly Tour

(28) West - Stencil Tank Cleaner
3 or 4

slag metal reclaimer

(29) Line 2 pouring yard
looking West

slag on floor

port gas to reclaimer

ret gas to melting unit

Vehicle Wash down area

8 ft in barrel

30

solids \rightarrow bag

liquid - sewage treatment

\rightarrow Northeydon

sewage goes into sewer acid alkaline sewer

South

Scrap iron / metals

broken tools

South



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5

77 WEST JACKSON BOULEVARD

CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF:

HRE-8J

January 8, 1992

Ms. Carey French, P.E.
Environmental Engineering
Caterpillar, Inc.
8826 Route 24
Mapleton, IL 61547

Re: Visual Site Inspection
Caterpillar, Inc.
ILD 052 664 364

Dear Ms. French:

The United States Environmental Protection Agency (U.S. EPA) Region V will conduct a Preliminary Assessment including a Visual Site Inspection (PA/VSI) at the referenced facility. This inspection is conducted pursuant to the Resource Conservation and Recovery Act, as amended (RCRA) Section 3007 and the Comprehensive Environmental Response, Compensation, and Liability Act, as amended (CERCLA) Section 104(e). The referenced facility has generated, treated, stored, or disposed of hazardous waste subject to RCRA. The PA/VSI requires identification and systematic review of all solid waste streams at the facility. The objective of the PA/VSI is to determine whether or not releases of hazardous wastes or hazardous constituents have occurred or are occurring at the facility which may require further investigation. This analysis will also provide information to establish priorities for addressing any confirmed releases.

The visual site inspection of your facility is to verify the location of all solid waste management units (SWMUs) and areas of concern (AOCs) to make a cursory determination of their condition by visual observation. The definitions of SWMUs and AOCs are included in Attachment I. The VSI supplements and updates data gathered during a preliminary file review. During this site inspection, no samples will be taken. A sampling visit to ascertain if releases of hazardous waste or constituents have occurred may be required at a later date.

Assistance of some of your personnel may be required in reviewing solid waste flow(s) or previous disposal practices. The site inspection is to provide a technical understanding of the present and past waste flows and handling, treatment, storage, and disposal practices. Photographs of the facility are necessary to document the condition of the units at the facility and the waste management practices used.

January 8, 1992

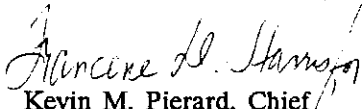
Page 2

The VSI has been scheduled for January 22 & 23, 1992 at 9:00 am. The inspection team will consist of Arthur Marshalla and Scott Tajak of Resource Applications, Inc., a contractor for the U.S. EPA. Representatives of the Illinois Environmental Protection Agency (IEPA) may also be present. Your cooperation in admitting and assisting them while on site is appreciated.

The U.S. EPA recommends that personnel who are familiar with the present and past manufacturing and waste management activities be available during the VSI. Access to any relevant maps, diagrams, hydrogeologic reports, environmental assessment reports, sampling data sheets, environmental permits (air, NPDES), manifests and/or correspondence is also necessary, as such information is needed to complete the PA/VSI. Attachment II is a summary of the information required.

If you have any questions, please contact me at (312) 886-4448 or Francene Harris at (312) 886-2884. A copy of the Preliminary Assessment/Visual Site Inspection Report, excluding the conclusions and Executive Summary portion will be sent when the report is available.

Sincerely yours,



Kevin M. Pierard, Chief
OH/MN Technical Enforcement Section

enclosure

cc: John Tripses, Region Manager, IEPA Peoria
Larry Eastep, Manager, Permit Section, IEPA Springfield

ATTACHMENT I

Caterpillar, Inc.
8826 Route 24
Mapleton, IL 61547

The definitions of solid waste management unit (SWMU) and area of concern (AOC) are as follows.

A SWMU is defined as any discernable unit where solid wastes have been placed at any time from which hazardous constituents might migrate, regardless of whether the unit was intended for the management of a solid or hazardous waste.

The SWMU definition includes the following:

- RCRA regulated units, such as container storage areas, tanks, surface impoundments, waste piles, land treatment units, landfills, incinerators, and underground injection wells
- Closed and abandoned units
- Recycling units, wastewater treatment units, and other units that U.S. Environmental Protection Agency has generally exempted from standards applicable to hazardous waste management units
- Areas contaminated by routine and systematic releases of wastes or hazardous constituents, such as wood preservative treatment dripping areas, loading or unloading areas, or solvent washing areas

An AOC is defined as any area where a release to the environment of hazardous wastes or constituents has occurred or is suspected to have occurred on a nonroutine or nonsystematic basis. This includes any area where such a release in the future is judged to be a strong possibility.

ATTACHMENT II

PROBABLE SOLID WASTE MANAGEMENT UNITS (SWMUs)

1. Little information was available to compile a list of solid waste management units (SWMUs) at your facility. Please list all waste management units at your facility. If possible, please provide as complete information for the waste unit in response to the questions below.

From the list of probable SWMUs please address the following questions:

- Do the above SWMUs still exist at the facility and are they in operation?
 - What are the start-up and closure dates of the above SWMUs?
 - What types of wastes are the SWMUs currently/formerly used for?
 - Name any SWMUs at your facility that have not been listed above. These would include hazardous waste storage areas, treatment units, or any other area or system at your facility dealing with hazardous waste including satellite accumulation areas.
 - What are the average volumes and rates of generation of waste streams?
 - Document any releases that have occurred at the facility. This includes spills or leaks of both wastes and raw product. Outline the action taken to clean up the release.
2. Please supply as much information as possible concerning the site history. This would include any information you have regarding operations and any other owner/operators at this location.
 3. Please provide a description of the primary processes taking place at your facility and the waste streams which are generated.
 4. Describe the methods of treatment and disposal of generated waste utilized by your facility.

If available, the following items are requested:

- A detailed map of the facility showing the location of the SWMUs and production stations.
- Flow diagrams showing waste streams and waste management practices.
- Copies of any permits currently held by the facility.
- SARA Title III information and a copy of the facility contingency plan.

CORRECTIVE ACTION STABILIZATION QUESTIONNAIRE

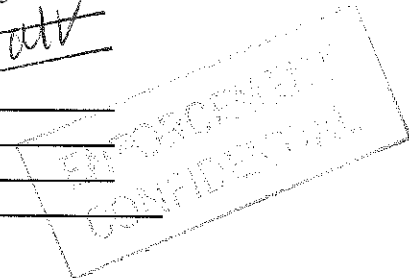
Completed by: Mary Wojciechowski
 Date: September 3, 1992

RELEASED 6/29/00
 DATE _____
 RIN # _____
 INITIALS att

OCT 13 1992

Background Facility Information

Facility Name: Caterpillar, Inc.
 EPA Identification No.: ILD 052 664 364
 Location (City, State): Mapleton, Illinois
 Facility Priority Rank: High



1. Is this checklist being completed for one solid waste management unit (SWMU), several SWMUs, or the entire facility? Explain.

Entire facility
10 SWMUs
4 AOCs

Status of Corrective Action Activities at the Facility

2. What is the current status of HSWA corrective action activities at the facility?

- ☐ No corrective action activities initiated (Go to 5)
- ☒ RCRA Facility Assessment (RFA) or equivalent completed
- ☐ RCRA Facility Investigation (RFI) underway
- ☐ RFI completed
- ☐ Corrective Measures Study (CMS) completed
- ☐ Corrective Measures Implementation (CMI) begun or completed
- ☐ Interim Measures begun or completed

3. If corrective action activities have been initiated, are they being carried out under a permit or an enforcement order?

- ☐ Operating permit
- ☐ Post-closure permit
- ☐ Enforcement order
- ☒ Other (Explain)

A past corrective action appears to have been voluntary, but was approved by IEPA.

4. Have interim measures, if required or completed [see Question 2], been successful in preventing the further spread of contamination at the facility?

- ☐ Yes
- ☐ No
- ☒ Uncertain; still underway
- ☐ Not required

Additional explanatory notes:

Further investigation is needed to address remaining contamination at the facility.

Facility Releases and Exposure Concerns

5. To what media have contaminant releases from the facility occurred or been suspected of occurring?

☒ (X) Ground water
☒ (X) Surface water
☐ () Air
☒ (X) Soils

6. Are contaminant releases migrating off-site?

☐ () Yes; Indicate media, contaminant concentrations, and level of certainty.

Groundwater:

Surface water:

Air:

Soils:

☐ () No
☒ (X) Uncertain

- 7a. Are humans currently being exposed to contaminants released from the facility?

☐ () Yes (Go to 8a)
☐ () No
☒ (X) Uncertain

Additional explanatory notes:

Migration of contaminants has not been confirmed.

- 7b. Is there a potential for human exposure to the contaminants released from the facility over the next 5 to 10 years?

☒ (X) Yes
☐ () No
☐ () Uncertain

Additional explanatory notes:

A creek runs through the facility and a river is 700 feet south of the facility. The river is used for recreation and municipal water supply. Wells are located 1/2 mile from the facility.

- 8a. Are environmental receptors currently being exposed to contaminants released from the facility?

☐ () Yes (Go to 9)
☐ () No
☒ (X) Uncertain

Additional explanatory notes:

Migration of contaminants has not been confirmed.

- 8b. Is there a potential that environmental receptors could be exposed to the contaminants released from the facility over the next 5 to 10 years?

☒ (X) Yes
☐ () No
☐ () Uncertain

Additional explanatory notes:

The facility is located on property that used to be wetlands. The nearby river is used for recreation and municipal water supply wells are located within 1/2 mile.

Anticipated Final Corrective Measures

9. If already identified or planned, would final corrective measures be able to be implemented in time to adequately address any existing or short-term threat to human health and the environment?

☐ Yes
☒ No
☐ Uncertain

Additional explanatory notes:

Final corrective measures have not been identified or planned.

10. Could a stabilization initiative at this facility reduce the present or near-term (e.g., less than two years) risks to human health and the environment?

☒ Yes
☐ No
☐ Uncertain

Additional explanatory notes:

Stabilization appears to be necessary but further information on the nature and extent of contamination is needed.

11. If a stabilization activity were not begun, would the threat to human health and the environment significantly increase before final corrective measures could be implemented?

☐ Yes
☐ No
☒ Uncertain

Additional explanatory notes:

Further information on the nature and extent of contamination is needed.

Technical Ability to Implement Stabilization Activities

12. In what phase does the contaminant exist under ambient site conditions? Check all that apply.

☐ Solid
☒ Light non-aqueous phase liquids (LNAPLs)
☐ Dense non-aqueous phase liquids (DNAPLs)
☒ Dissolved in ground water or surface water
☐ Gaseous
☐ Other _____

13. Which of the following major chemical groupings are of concern at the facility?

☒ Volatile organic compounds (VOCs) and/or semi-volatiles
☐ Polynuclear aromatics (PAHs)
☐ Pesticides
☒ Polychlorinated biphenyls (PCBs) and/or dioxins
☐ Other organics
☒ Inorganics and metals
☐ Explosives
☐ Other _____

14. Are appropriate stabilization technologies available to prevent the further spread of contamination, based on contaminant characteristics and the facility's environmental setting? [See Attachment A for a listing of potential stabilization technologies.]

(X) Yes; Indicate possible course of action.

Removal of contaminated soil would be a possible course of action. However, further information on the nature and extent of contamination is needed.

(X) No; Indicate why stabilization technologies are not appropriate; then go to Question 18.

15. Has the RFI, or another environmental investigation, provided the site characterization and waste release data needed to design and implement a stabilization activity?

() Yes
(X) No

If No, can these data be obtained faster than the data needed to implement the final corrective measures?

(X) Yes
() No

Timing and Other Procedural Issues Associated with Stabilization

16. Can stabilization activities be implemented more quickly than the final corrective measures?

() Yes
() No
(X) Uncertain

Additional explanatory notes:

Further investigation is needed.

17. Can stabilization activities be incorporated into the final corrective measures at some point in the future?

(X) Yes
() No
() Uncertain

Additional explanatory notes:

Conclusion

18. Is this facility an appropriate candidate for stabilization activities?

- ☒ Yes
- ☐ No, not feasible
- ☐ No, not required
- ☒ Further investigation necessary

Explain final decision, using additional sheets if necessary.

This facility has had 6 documented releases to on-site soil. Sources of these releases include a phenolic wastewater holding tank, gasoline USTs, a sulfuric acid feed line, a diesel fuel truck, and PRC capacitors. These releases took place between 1982 and 1992.

Cleanup of the area of the PCB release took place in 1984 and 1985. IEPA issued written approval of the cleanup in 1985.

Further investigation is needed to determine the nature and extent of contamination from the other 5 releases. Thus, at this time a stabilization initiative cannot be implemented but removal of contaminated soil would be a possible course of action.

Facility Name CATERPILLAR TRACTOR CO.
Location (City, State) Mapleton, IL
EPA I.D.# ILD 052664364
Reviewer Name STEPHENSON
Date of Review 3/19/86

SUMMARY OF FACILITY CERTIFICATION REGARDING POTENTIAL RELEASES FROM SOLID WASTE MANAGEMENT UNITS

- (1) Are there any solid waste management units?

Yes X No Undetermined

- (2) If answer to (1) is Yes, list the units by type, number and operating status. If answer to (1) is No or undetermined, go to Question (5).

	<u>Type of Unit</u>	<u>Status</u>
a.	LANDFILL	ACTIVE - PERMITTED
b.	WASTEWATER TREATMENT UNITS	ACTIVE - PERMITTED
c.	WASTE RECYCLING OPERATIONS	ACTIVE
d.		
e.		
f.		
g.		
h.		
i.		
j.		

- (3) For each type of unit listed in (2), summarize the types and volumes of wastes handled.

	Type of Unit	Type of Waste	Volume of Wastes
a.	LANDFILL	NON-HAZARDOUS SAND & DUST	UNDETERMINED
b.	WASTE WATER TREATMENT UNITS	NON-HAZARDOUS	UNDETERMINED
c.	WASTE RECYCLING OPERATIONS	UNDETERMINED	UNDETERMINED
d.			
e.			
f.			
g.			
h.			
i.			
j.			

- (4) Summarize all releases of hazardous waste or constituents, and check box as to whether company claims it was fully corrected.

	Releases	Corrected?		
a.	<u>NONE</u>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Undetermined <input type="checkbox"/>
b.	<u></u>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Undetermined <input type="checkbox"/>
c.	<u></u>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Undetermined <input type="checkbox"/>
d.	<u></u>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Undetermined <input type="checkbox"/>
e.	<u></u>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Undetermined <input type="checkbox"/>
f.	<u></u>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Undetermined <input type="checkbox"/>
g.	<u></u>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Undetermined <input type="checkbox"/>
h.	<u></u>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Undetermined <input type="checkbox"/>
i.	<u></u>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Undetermined <input type="checkbox"/>
j.	<u></u>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Undetermined <input type="checkbox"/>

(5) Certification: Yes ☒ No ☐

(6) Is additional information necessary? Yes ☒ No ☐

(7) Comments: ① CERTIFICATION WAS SIGNED BY THE PLANT MANAGER.
② THE NPDES PERMIT FOR THE WASTE WATER TREATMENT UNITS
SHOULD BE REVIEWED. ③ INFORMATION SHOULD BE OBTAINED CONCERNING
THEY TYPES OF (WASTE) MATERIALS "RECYCLED" AND HOW THEY ARE
MANAGED AT THE SITE.



CATERPILLAR TRACTOR CO.

Mapleton, Illinois 61547

February 24, 1986

RCRA Activities
Region V
P. O. Box A3587
Chicago, IL 60690


Attention: ATKJG

Dear Sir:

Caterpillar Tractor Co.
Mapleton Plant
ILD052664364

Please find enclosed the Certification Regarding Potential Releases from Solid Waste Management Units for the above referenced facility.

Sincerely,


R. L. Claussen,
Plant Manager

RLC:js
(309) 675-8601

enc. (1)

CERTIFICATION REGARDING POTENTIAL RELEASES FROM
SOLID WASTE MANAGEMENT UNITS

FACILITY NAME: Caterpillar Tractor Co. - Mapleton Plant
EPA I.D. NUMBER: ILD052664364
LOCATION CITY: Rt. 24
STATE: Mapleton, IL 61547

1. Are there any of the following solid waste management units (existing or closed) at your facility? NOTE - DO NOT INCLUDE HAZARDOUS WASTE UNITS CURRENTLY SHOWN IN YOUR PART A APPLICATION

	YES	NO
• Landfill	<u>X</u>	<u> </u>
• Surface Impoundment	<u> </u>	<u>X</u>
• Land Farm	<u> </u>	<u>X</u>
• Waste Pile	<u> </u>	<u>X</u>
• Incinerator	<u> </u>	<u>X</u>
• Storage Tank (Above Ground)	<u> </u>	<u>X</u>
• Storage Tank (Underground)	<u> </u>	<u>X</u>
• Container Storage Area	<u> </u>	<u>X</u>
• Injection Wells	<u> </u>	<u>X</u>
• Wastewater Treatment Units	<u>X</u>	<u> </u>
• Transfer Stations	<u> </u>	<u>X</u>
• Waste Recycling Operations	<u>X</u>	<u> </u>
• Waste Treatment, Detoxification	<u> </u>	<u>X</u>
• Other <u> </u>	<u> </u>	<u>X</u>

2. If there are "Yes" answers to any of the items in Number 1 above, please provide a description of the wastes that were stored, treated or disposed of in each unit. In particular, please focus on whether or not the wastes would be considered as hazardous wastes or hazardous constituents under RCRA. Also include any available data on quantities or volume of wastes disposed of and the dates of disposal. Please also provide a description of each unit and include capacity, dimensions and location at facility. Provide a site plan if available.

See attached description page and site plan.

NOTE: Hazardous wastes are those identified in 40 CFR 261. Hazardous constituents are those listed in Appendix VIII of 40 CFR Part 261.

3. For the units noted in Number 1 above and also those hazardous waste units in your Part A application, please describe for each unit any data available on any prior or current releases of hazardous wastes or constituents to the environment that may have occurred in the past or may still be occurring.

Please provide the following information

- a. Date of release
- b. Type of waste released
- c. Quantity or volume of waste released
- d. Describe nature of release (i.e., spill, overflow, ruptured pipe or tank, etc.)

There have been no hazardous waste releases.

4. In regard to the prior or continuing releases described in Number 3 above, please provide (for each unit) any analytical data that may be available which would describe the nature and extent of environmental contamination that exists as a result of such releases. Please focus on concentrations of hazardous wastes or constituents present in contaminated soil or groundwater.

Not applicable

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the submittal is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. (42 U.S.C. 6902 et seq. and 40 CFR 270.11(d))

R. L. Claussen, Plant Manager
Typed Name and Title

R. L. Claussen
Signature

2/25/86
Date

Caterpillar Tractor Co. - Mapleton Plant

Landfill

The Mapleton Plant landfill is permitted by the State of Illinois as a Solid Waste Disposal Site and is used only for non-hazardous waste sand and dust. See the attached site plan for the location of the landfill.

Wastewater Treatment Units

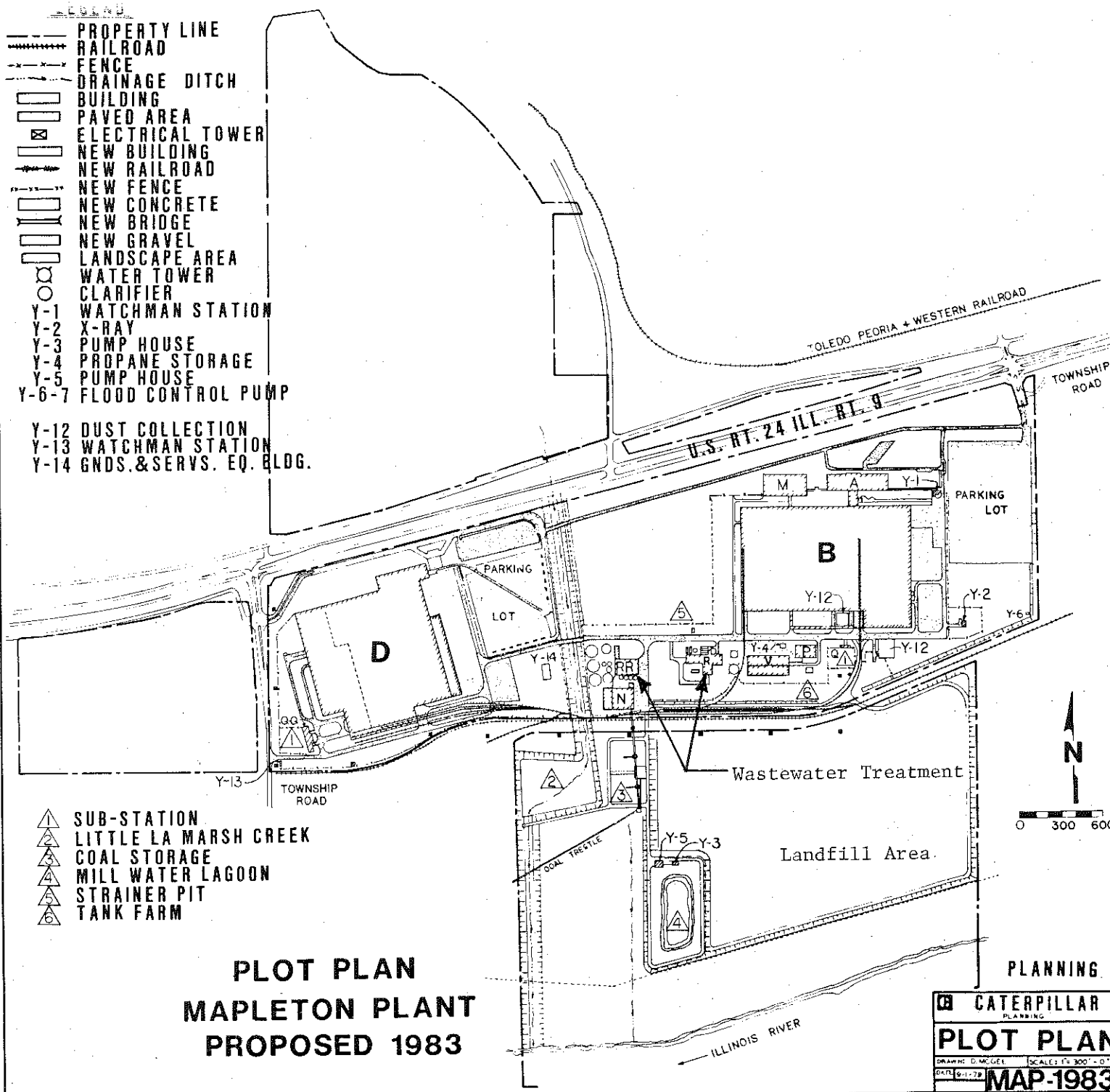
The Mapleton Wastewater Treatment Plant is permitted under NPDES and is non-hazardous. See the attached site plan for the location of the wastewater treatment facilities.

Waste Recycling Operations

It is the practice of the Mapleton Plant to find legitimate users of surplus materials, so they do not become wastes.

Waste materials that have value are put into the hands of reliable recyclers. This activity is carried out in accordance with the applicable regulations.

- PROPERTY LINE
 +---+ RAILROAD
 - - - FENCE
 - - - DRAINAGE DITCH
 [] BUILDING
 [] PAVED AREA
 [X] ELECTRICAL TOWER
 [] NEW BUILDING
 - - - NEW RAILROAD
 - - - NEW FENCE
 [] NEW CONCRETE
 [] NEW BRIDGE
 [] NEW GRAVEL
 [] LANDSCAPE AREA
 [] WATER TOWER
 [] CLARIFIER
 Y-1 WATCHMAN STATION
 Y-2 X-RAY
 Y-3 PUMP HOUSE
 Y-4 PROPANE STORAGE
 Y-5 PUMP HOUSE
 Y-6-7 FLOOD CONTROL PUMP
 Y-12 DUST COLLECTION
 Y-13 WATCHMAN STATION
 Y-14 GNDS. & SERVS. EQ. BLDG.



PLOT PLAN
MAPLETON PLANT
PROPOSED 1983

PLANNING

[C] CATERPILLAR
 PLANNING
PLOT PLAN
 DRAWING: D. MCGEE
 SCALE: 1" = 300' - 0"
 DATE: 6-11-79
MAP-1983